

DATA PROJECTOR

SERVICE MANUAL

Qumi_DP274-A13VVxA



Qumi_DP274-A13VVxB



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Revised History

NO.	Description	Date
00	Draft Edit	6-24-2011
01	Preliminary	6-28-2011
02	Page 33, Step of into MFG Mode method diagram modifies. Page 15~16 list number remark. Page 66~71 Spare part list update	7-05-2011

1. Important safety information

Be sure to read this Service Manual before providing services. In the projector, full consideration is taken to ensure safety for fire, electric shock, injury, harmful radiation, and substance. Therefore, observe the notice described in this Service Manual so that safety is kept when providing services. Moreover, be sure to observe the notice described in the Instruction Manual.

Pay attention to the following items during service inspection.

1-1 Cautions during disassembling and assembling

1. This equipment contains parts under high voltage. When making repairs, etc.
Be sure to pull out the power plug beforehand to insure safety.
2. Parts may be very hot immediately after use.
Make sure the equipment has cooled off sufficiently before carrying out repairs.
3. Make sure that parts and screws and wiring, etc. are returned to their original positions.
Tube, tape and other insulation materials have been used for safety reasons.
The internal wiring has been designed to avoid direct contact with hot parts or parts under high voltage when using clamps or other tools.
4. The parts used in this device have special safety features such as flame-resistance and anti-voltage properties. When replacing parts, always use parts supplied from the factory.
5. After finishing operations make sure that all parts and wires have been returned to their original position and that there has been no deterioration of the area around the location that was worked on.
6. Be sure to use a grounding strap (wrist band) during repair and inspection.

1-3 Lens

Do not look into a lens during projection. This damages your eyes.

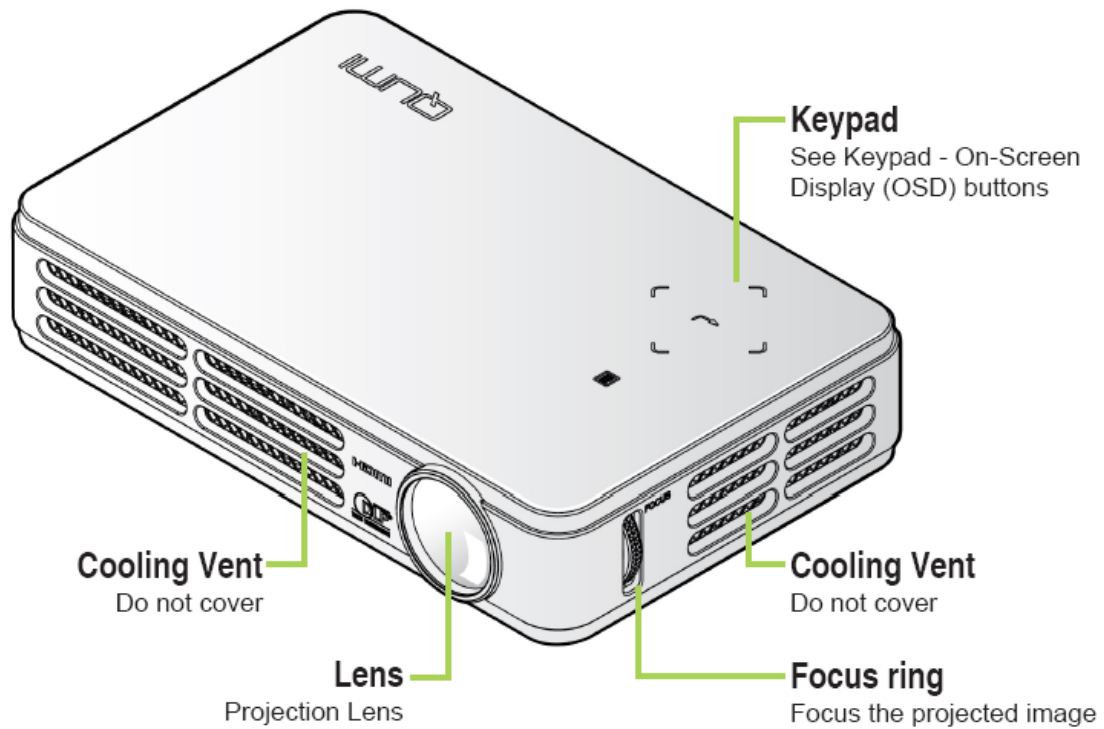
2. SPECIFICATIONS

2-1. Summary Specifications

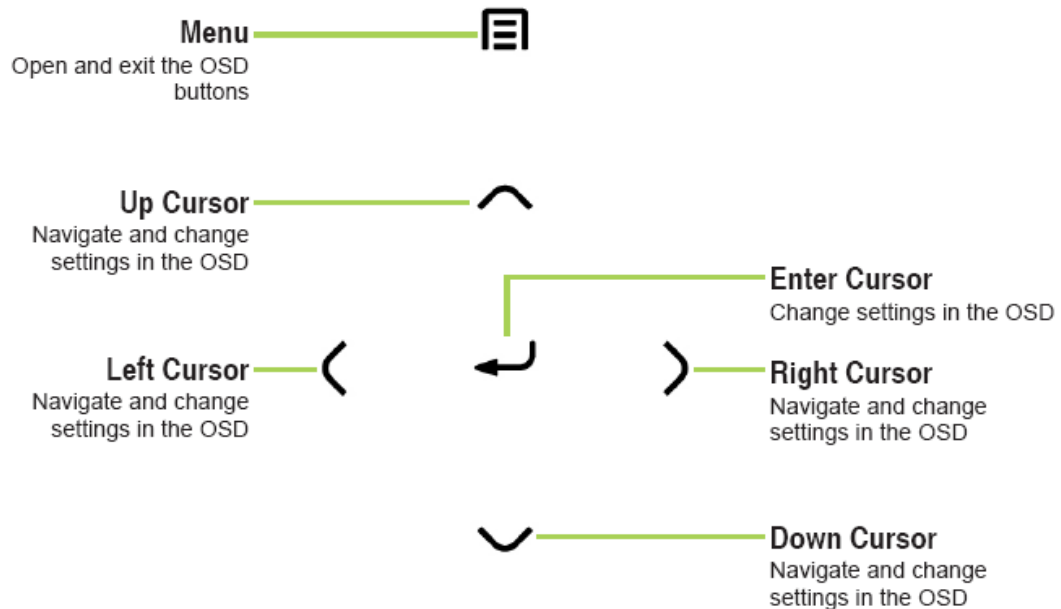
Model	Qumi_DP274-A13VVxx
Display type	TI DLP DMD 0.45" , 12deg , S310 , WXGA Dark Chip3
Resolution	1280 x 800
Projection distance	762mm-2286mm
Projection screen size	25.43" to 76.34" inches
Throw ratio	1.55
Aspect Ratio	16:10
Vertical keystone correction	+/- 15 degrees
Video compatibility	HDTV , NTSC , PAL , SECAM
Operation temperature	5° ~ 35°C
Dimensions (WxHxD)	160.0mm (W) x102.4mm (H) x32.3mm (D)
Weight	1.4 lbs typ.
AC Input	AC Universal 100 ~ 240, Typical @ 110VAC (100~240)/+-10%
Power consumption	w/Adaptor --- Normal:70W typ , ECO:20W typ
	wo/Adaptor --- Normal:60W typ , ECO:18W typ
Stand By	<0.5 watts @110Vac 60Hz
LED Brightness	Bright Mode: 120~170 lumens
Audio speaker	AMP 1W speaker
Input terminals	Digital -- HDMI C type x 1
	Analog -- Universal I/O x 1 (through a transferring line of universal I/O (24 pin) to D-SUB (15 pin))
	Component -- Thru RGB_IN
	AN in -- ϕ 3.5 mm phone jack for CVBS and Audio R/L (through a transferring line of 4 contact phone jack to CVBS/ AUDIO R/L RCA jack)
	USB connector type A x 1
	Media Card -- Micro SD x 1
Output terminals	Audio Out -- 3.5mm earphone jack (Volume control) x 1

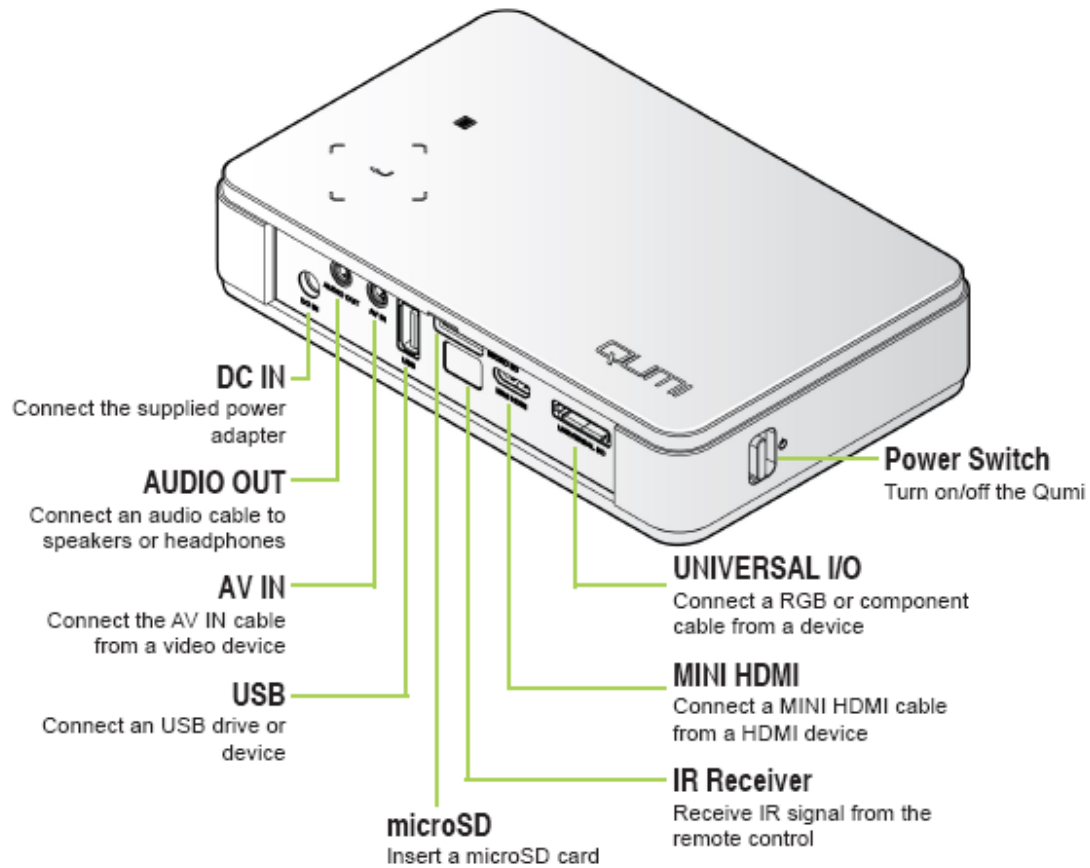
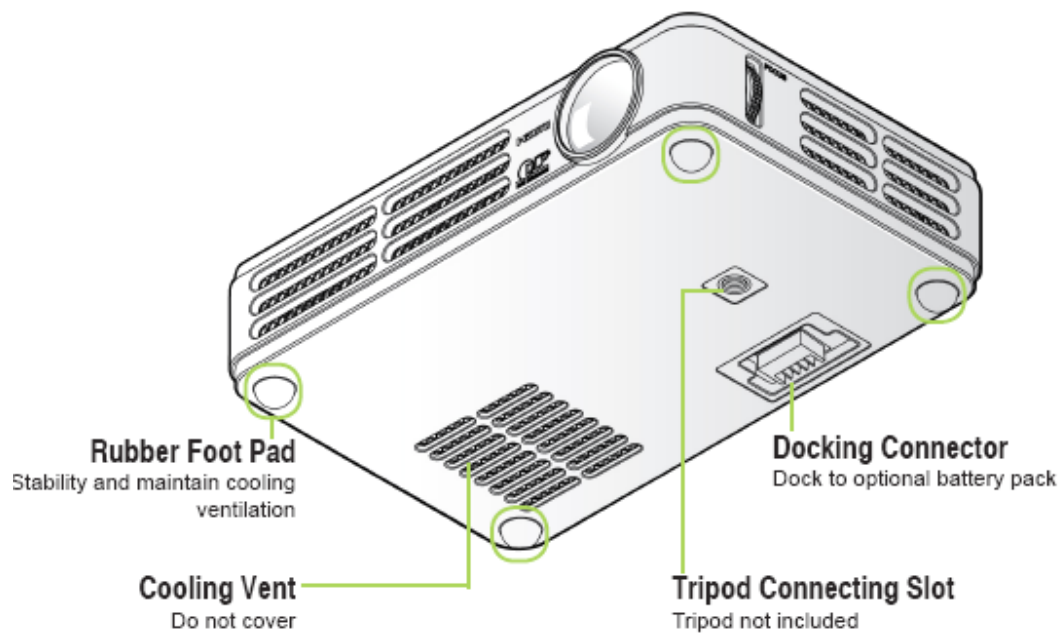
2-2. Views the projector

Front/Top/Right View

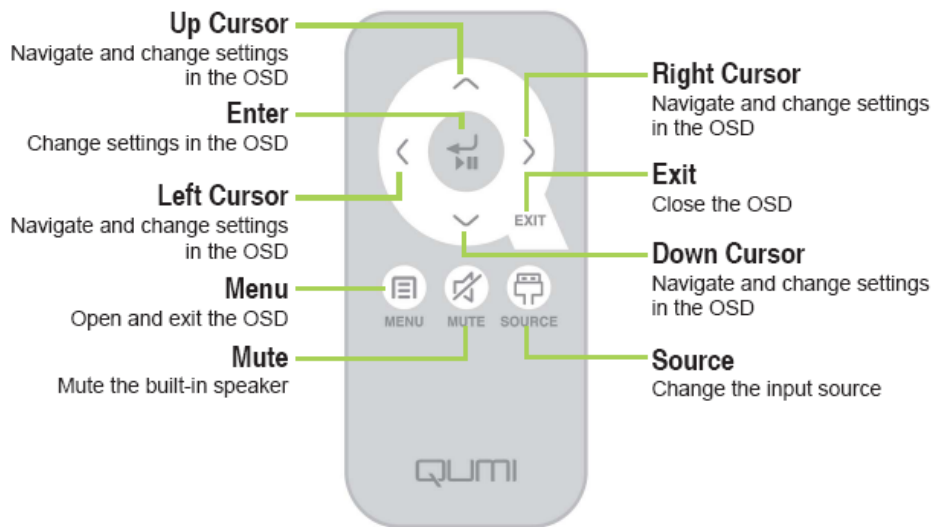


Keypad



B. Rear/Top/Left view**Bottom view**

2-3. Remote control



Important:

1. Be sure nothing obstructs the path between the remote control and the Qumi. If the path between the remote control and the Qumi is obstructed, the signal can bounce off certain reflective surfaces.
2. The buttons and keys on the Qumi have the same layout and similar functions as the corresponding buttons on the remote control. This user's manual describes the functions based on the remote control.

Qumi and Remote Control Buttons

The Qumi can be operated using the remote control or the keypad on the top of the Qumi. All operations can be carried out with the remote control; however, the keypad on the Qumi carries out the same operations as the remote control by pressing a combination of keys.

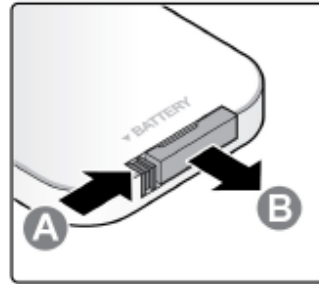
The remote control is not only used to navigate the cursor in the menus, but can also be used to control the media functions (music and video playback). For more details about how to control the media functions with the remote control, please refer to 13.

Media Player Screen

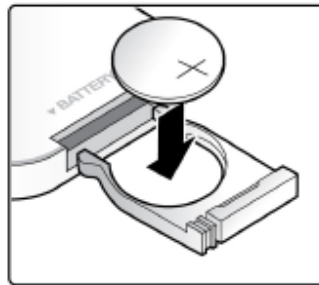
The media player screen is the main interface for the Qumi Q2 Series. If a USB or MicroSD card is plugged in when powering on the Qumi, the media player screen appears. In the media player screen, you can choose the type of media to display by selecting:

- Movie – An easy to use movie player that displays multiple movie formats.
- Photo – A photo viewer that contains slide show functionality.
- Music – A music player that supports many types of audio files, ready to play music.
- Office viewer – A document viewer that displays documents.
- Settings – The settings of the Qumi can be adjusted in this menu.

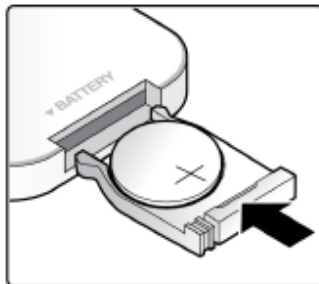
1. Remove the battery compartment cover by sliding the cover in the direction of the arrow (A). Pull out the cover (B).



2. Insert the battery with the positive side facing up.



3. Replace the cover.

**Caution:**

1. Only use a 3V lithium battery (CR2025)
2. Dispose of used batteries according to local ordinance regulations.
3. Remove the battery when not using the projector for prolonged periods.

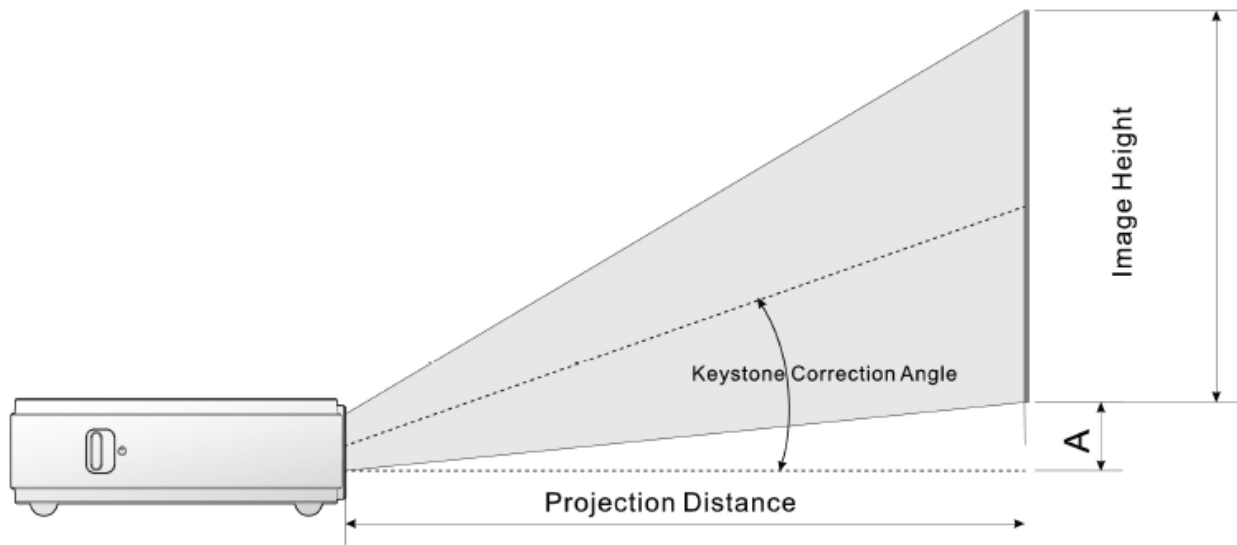
Operating Range

The remote control uses infrared (IR) transmission to control the Qumi. It is not necessary to point the remote directly at the Qumi.

The remote control functions properly within a radius of approximately 7 meters (23 feet) and 15 degrees above or below the Qumi level (if the remote is not held perpendicular to the sides or rear of the Qumi).

If the Qumi is unresponsive to the remote control, move closer towards the Qumi.

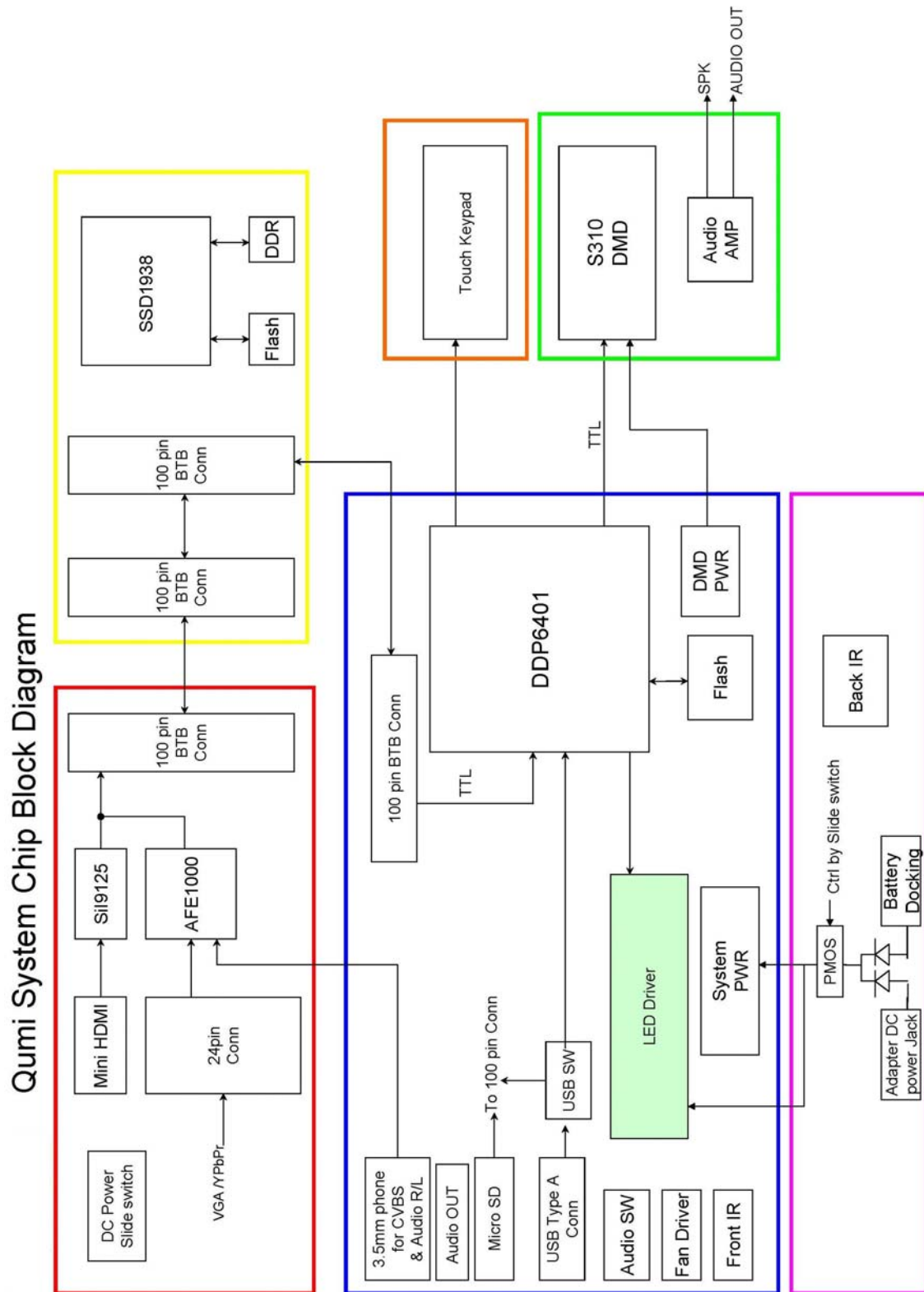
2-4. Optical Adjustment & Image Size



Projection Distance and Size Table

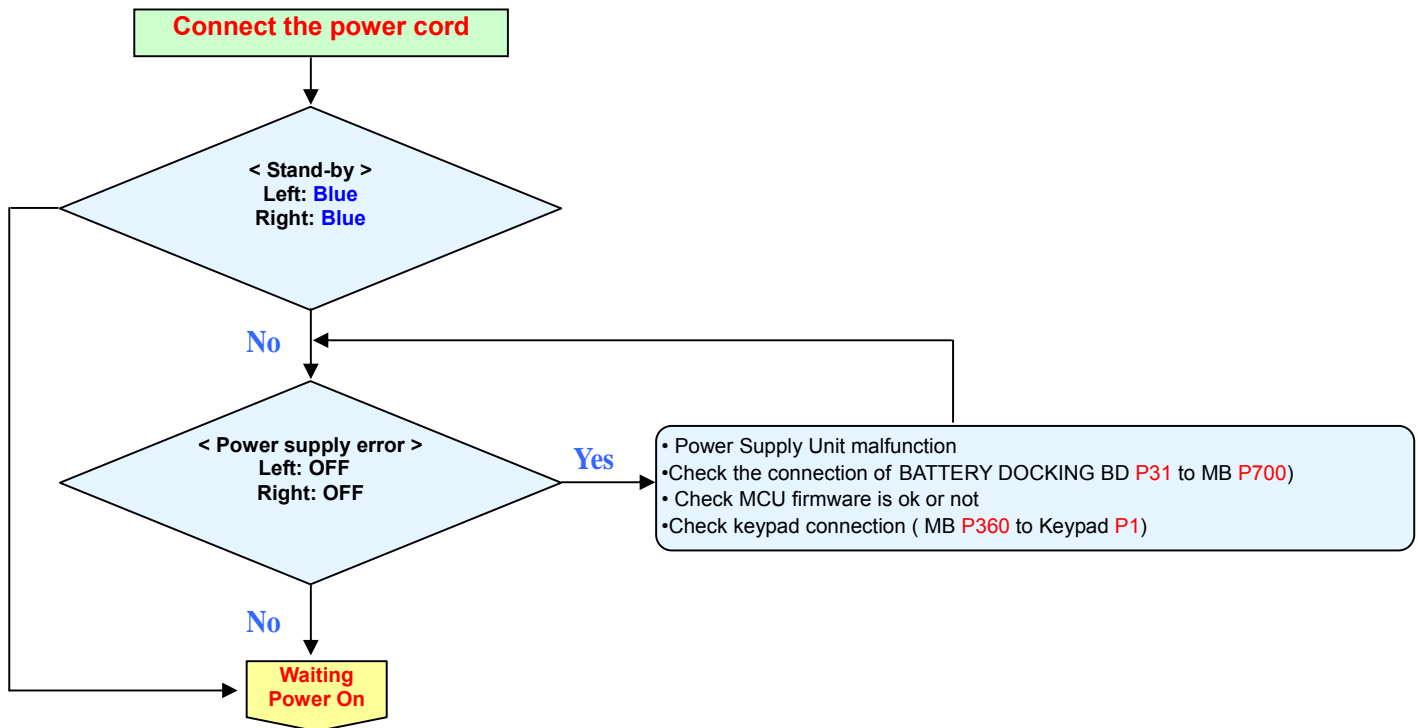
IMAGE DIAGONAL (MM/INCHES)	IMAGE WIDTH (MM/INCHES)	IMAGE HIGH (MM/INCHES)	PROJECTION DISTANCE (MM/INCHES)	OFFSET-A (MM/INCHES)
762/30	646/25.43	404/15.91	1000/39.37	10/0.40
1016/40	862/33.94	538/21.18	1340/52.76	13/0.51
1143/45	969/38.15	606/23.86	1500/59.06	15/0.59
1270/50	1077/42.40	673/26.50	1670/65.75	17/0.66
1524/60	1292/50.87	808/31.81	2000/78.74	20/0.79
1778/70	1508/59.37	942/37.09	2340/92.13	24/0.92
2032/80	1723/67.83	1077/42.40	2670/105.12	27/1.06
2286/90	1939/76.34	1212/47.72	3000/118.11	30/1.18

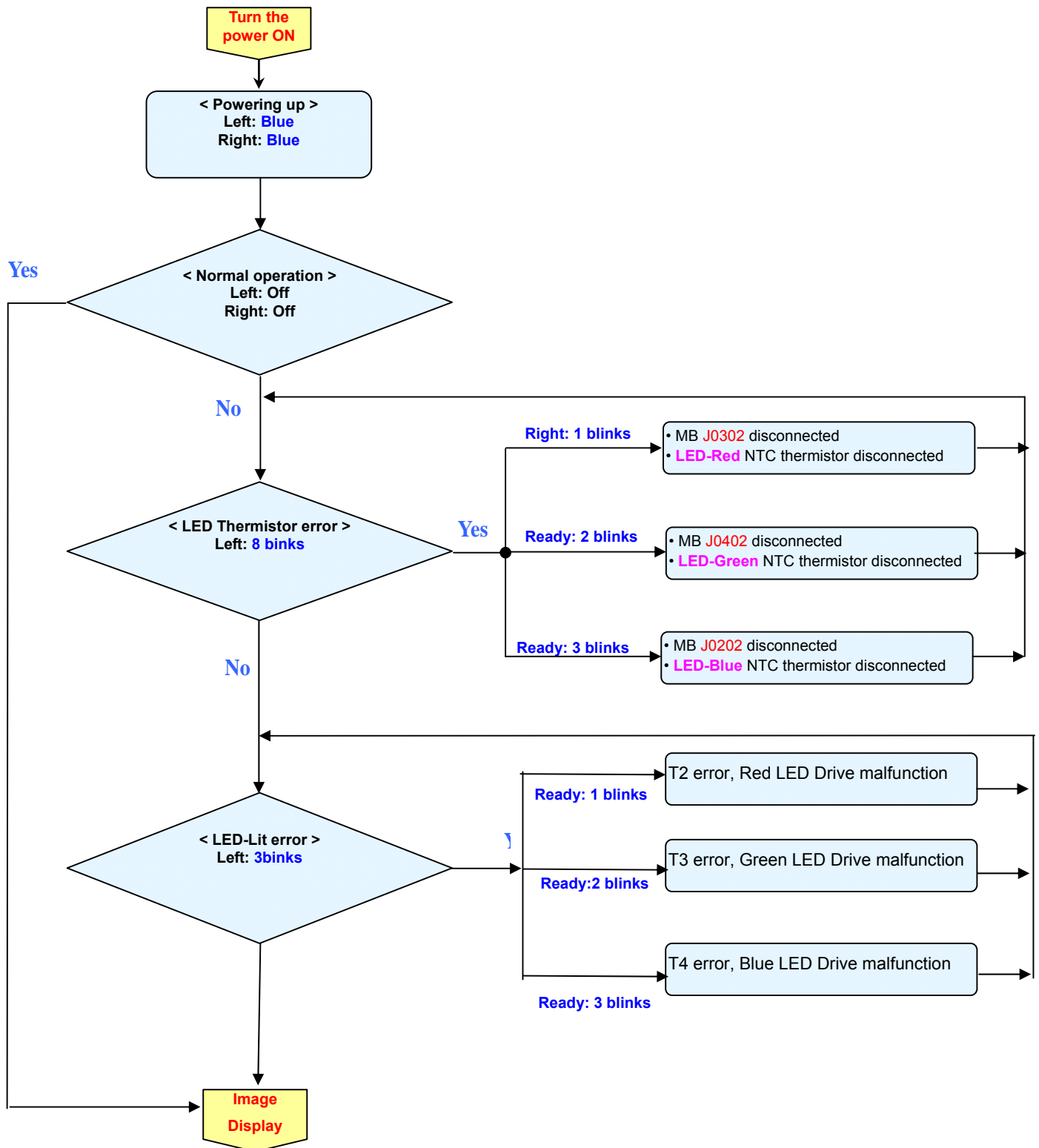
2-5. Block Diagram

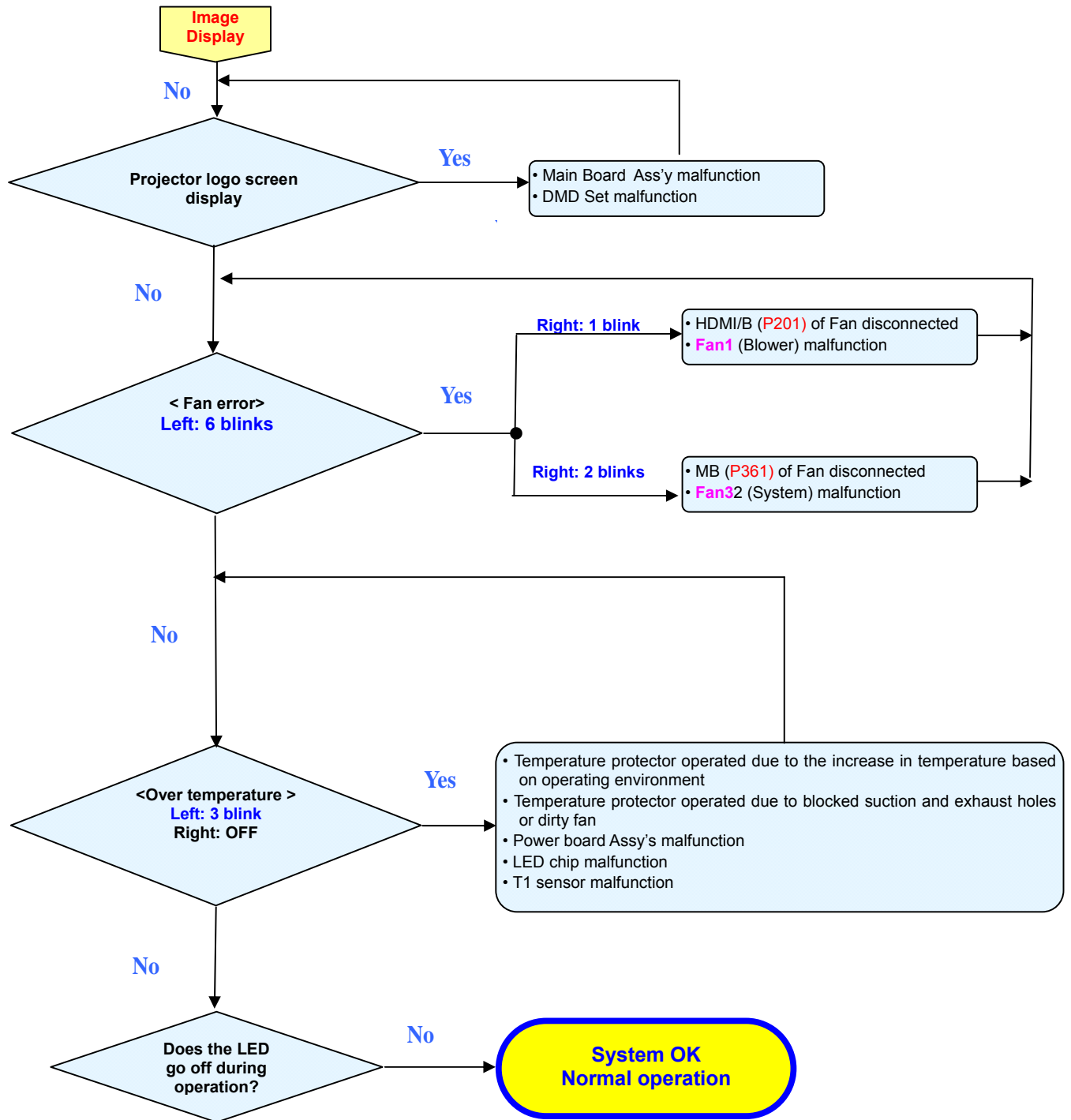


3. TROUBLE SHOOTING

Carry out the following checks before disassembling the equipment.







Common problems and solutions

These guidelines provide tips to deal with problems you may encounter while using the projector. If the problem remains unsolved, contact your dealer for assistance.

Often after time spent troubleshooting, the problem is traced to something as simple as a loose connection. Check the following before proceeding to the problem-specific solutions.

- *Use some other electrical device to confirm that the electrical outlet is working.*
- *Ensure the projector is turned on.*
- *Ensure all connections are securely attached.*
- *Ensure the attached device is turned on.*
- *Ensure a connected PC is not in suspend or sleep mode.*
- *Ensure the connected notebook computer is properly configured for an external display*

Image Problems

Problem: No image appears on the screen

1. Verify the settings on your notebook or desktop PC.
2. Turn off all equipment and power up again in the correct order.

Problem: The image is blurred

1. Adjust the **Focus** on the projector.
2. Ensure the Qumi-to-screen distance is within the specified range.
3. Check that the Qumi lens is clean.

Problem: The image is wider at the top or bottom (trapezoid effect)

1. Position the Qumi so it is as perpendicular to the screen as possible.
2. Use the Keystone button on the remote control or projector to correct the problem.

Problem: The image is reversed

1. Check the orientation of the projection setting in the **Installation I** menu of the OSD.

Problem: The image is streaked

1. Set the **Frequency** and **Tracing** settings on the **Computer** menu of the OSD to the default settings.

2. Connect the Qumi to another computer to make sure that the problem is not caused by a computer's video card.

Problem: The image is flat with no contrast

1. Adjust the **Contrast** setting on the **Image** menu of the OSD.

Problem: The color of the projected image does not match the source image.

1. Adjust the **Color Temperature** and **Gamma** settings on the **Image** menu of the OSD

Remote Control Problems

Problem: The Qumi does not respond to the remote control

1. Direct the remote control towards remote sensor on the Qumi.
2. Ensure the path between remote and sensor is not obstructed.
3. Turn off any fluorescent lights in the room.
4. Check to see if the battery polarity is correct
5. Replace the batteries.
6. Turn off other Infrared-enabled devices in the vicinity.
7. Have the remote control serviced.

Audio Problems

Problem: There is no sound

1. Adjust the volume on the remote control.
2. Adjust the volume of the audio source.
3. Check the audio cable connection.
4. Test the source audio output with other speakers.
5. Have the projector serviced.

Problem: The sound is distorted

1. Check the audio cable connection.
2. Test the source audio output with other speakers.
3. Have the projector serviced.

4. DISASSEMBLY AND ASSEMBLY

Review the Qumi and Removing the foot rubbers



Look the full set projector.



Look at the IO side.



Look at the case of top side.



Look at the keypad of top side.



Remove the four foot rubbers.



Review these rubbers.

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Removing the Top Cover and replacing the keypad touch board



Remove the four screws.



Review the four screws (S01).



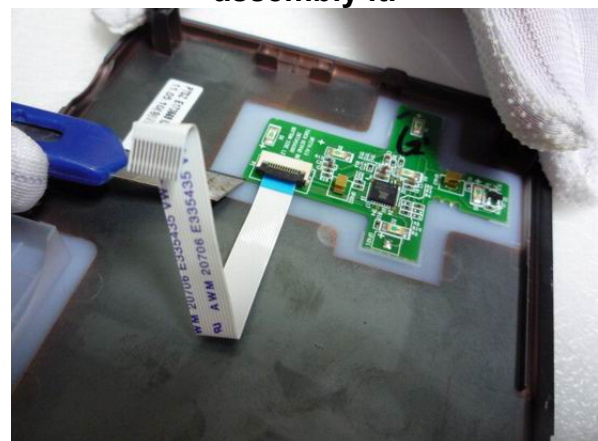
Remove the Top cover like this.



Be careful this connector when you assembly it.



Review the Top Cover assy.



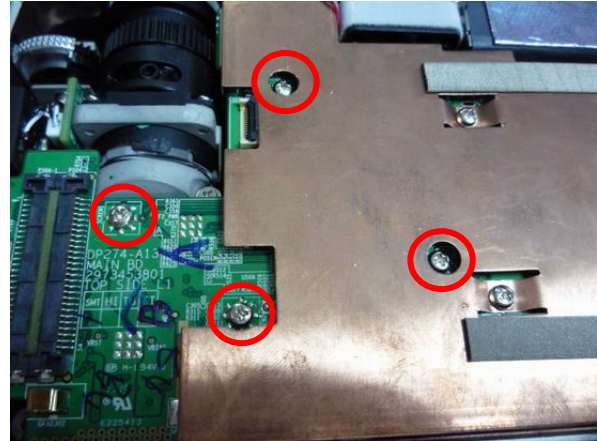
Replace the keypad touch board like this.

DISASSEMBLY

Removing the Main Board assy



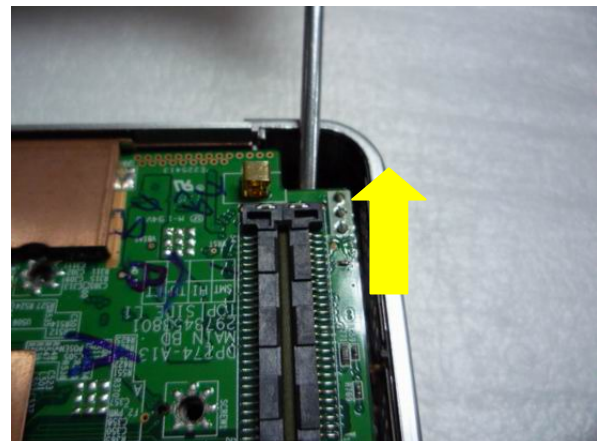
Review the Qumi.



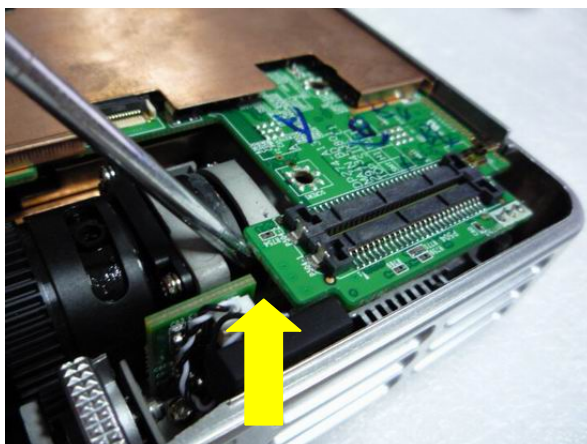
Remove the four screws.



Review the four screws (S02).



Firstly, tilt one side of the main board like this.



Secondly, tilt the other side like this.



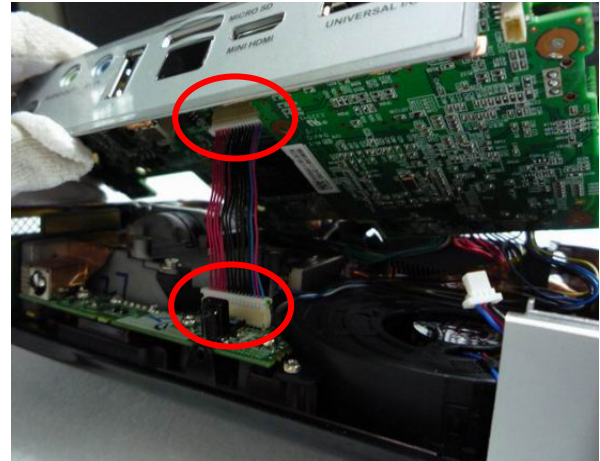
Remove the main board like this.

DISASSEMBLY

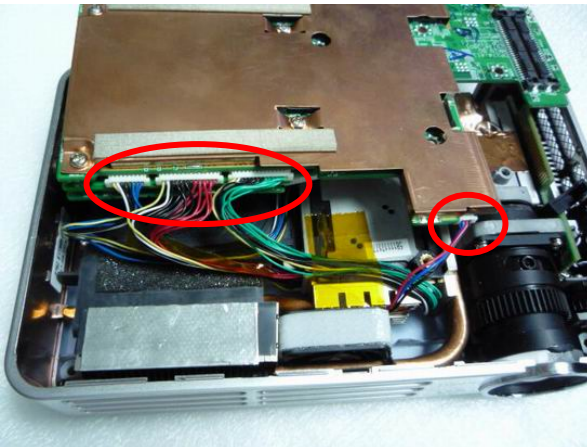
Removing the Main Board assy



Be careful the Blower FAN connector when you assembly.



Be careful these connectors when you assembly it.



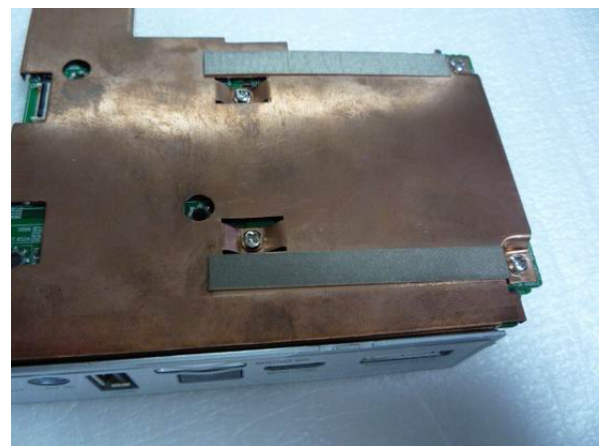
Be careful these connectors when you assembly it.



Review the Main board assy.



Review the Main board assy.



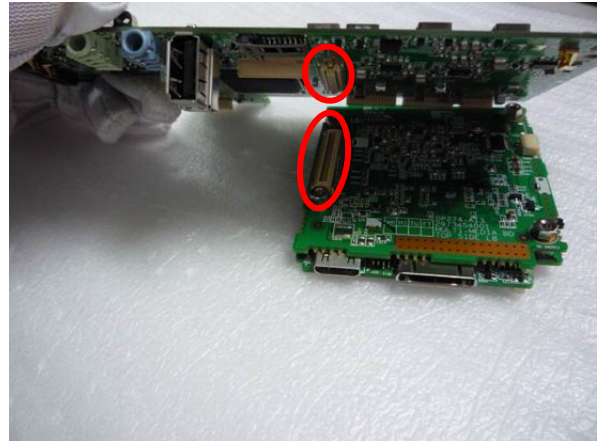
Remove the four screws.

DISASSEMBLY

Removing the Main Board



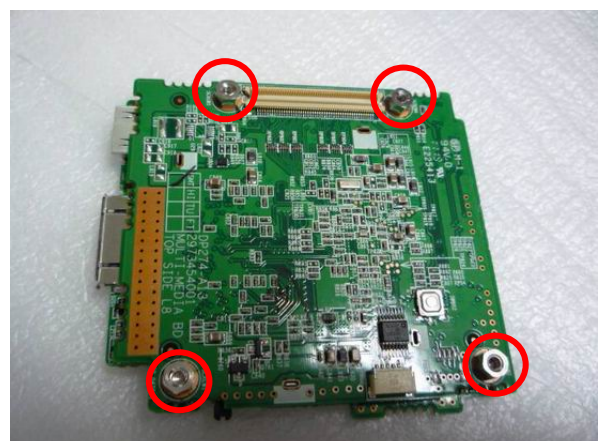
Review the four screws (S02) and take off the main board.



Be careful the two connectors when you assembly.



Review the main board shielding.



Remove the four screws.



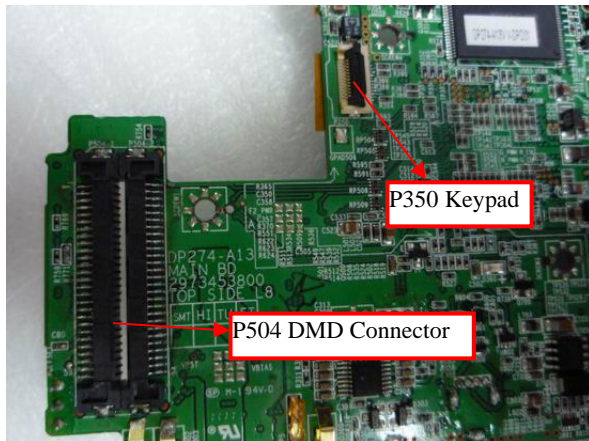
Remove the four screws (S03).



**Review the
MULTI-MEDIA BD and HDMI+VGA BD**

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Main Board Review



Careful area of these connectors and check these right positions connection when you recover main board again.

Careful the connector and check the right position connection when you recover main board again.

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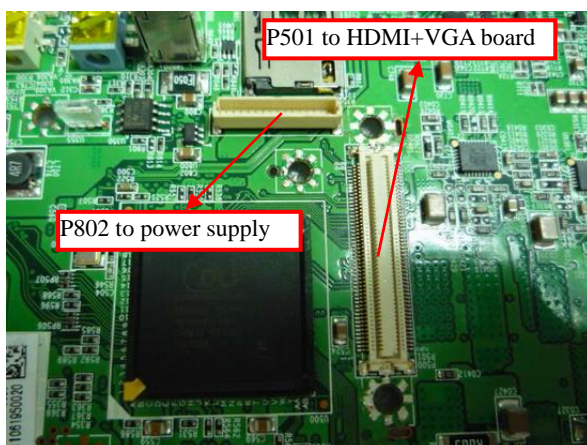
Main Board Review #Top side

Main Board Review

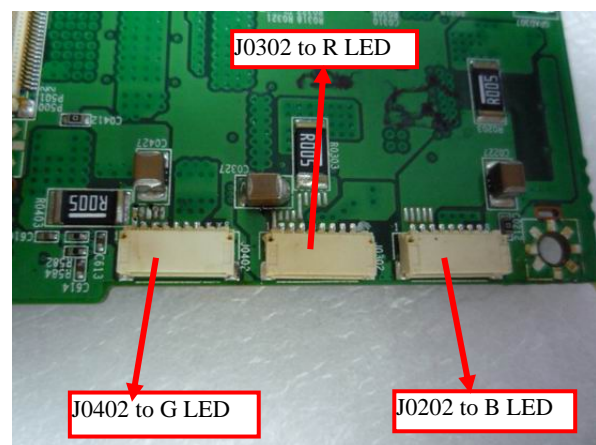
DISASSEMBLY



Main Board Review #Bottom side



Careful area of these connectors and check these right positions connection when you recover main board again.

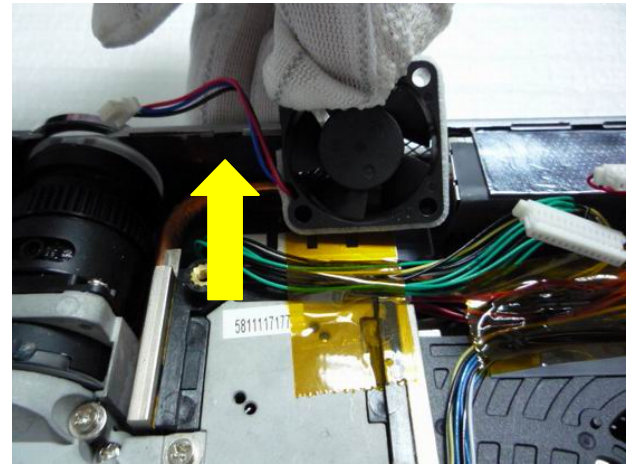


Careful area of these connectors and check these right positions connection when you recover main board again.

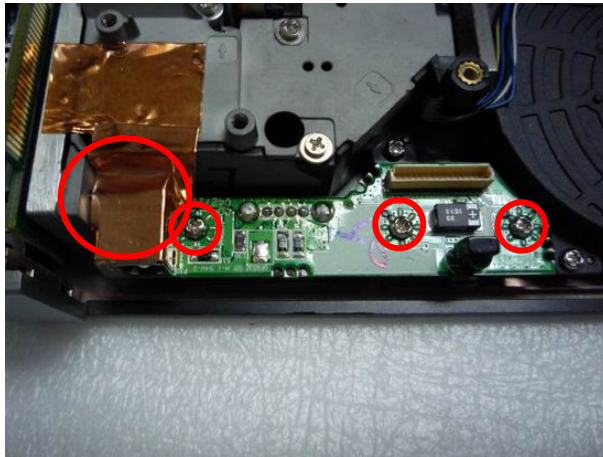
Removing the Fan & Battery Docking Board



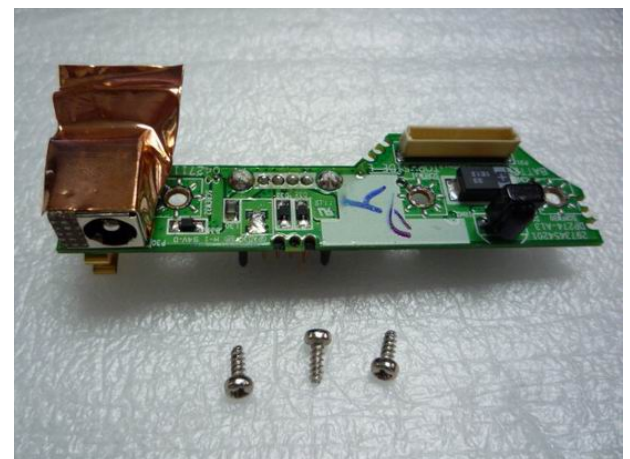
Review the Qumi.



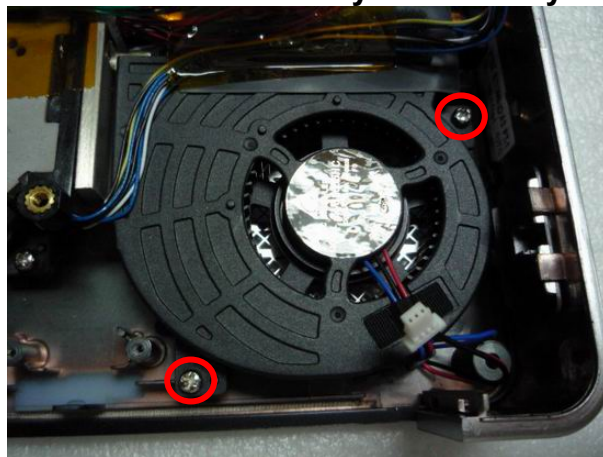
Take off the Axial fan like this.



Remove the three screws and careful the aluminum foil when you assembly.



Review the BATTERY DOCKING BD and the three screws (S04).



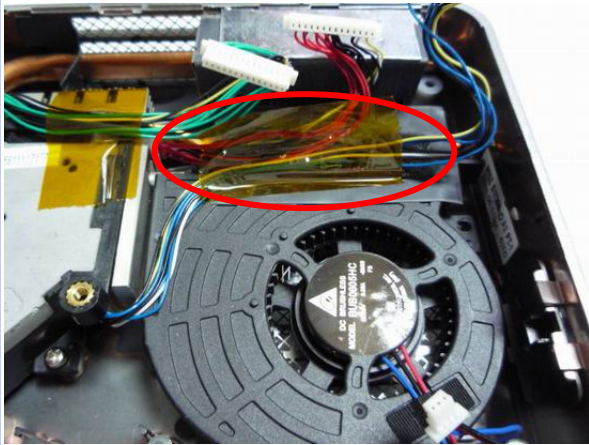
Remove the two screws.



Review the two screws (S04).

D I S A S S E M B L Y

Removing the Fan & Speaker



Be careful these wires when you assembly the Blower Fan.



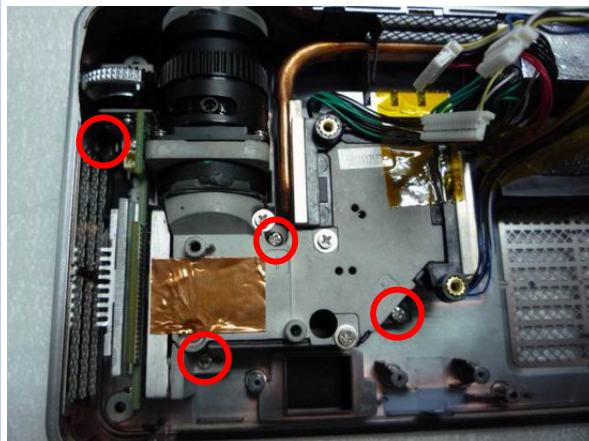
Be careful this position when you take off the Blower Fan.



Review the Blower Fan.



Remove the speaker.



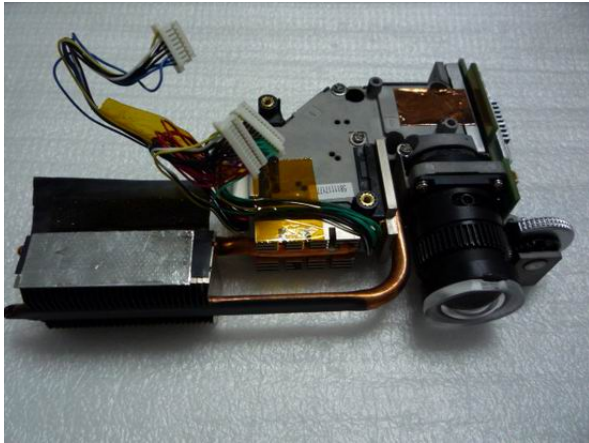
Remove the four screws.



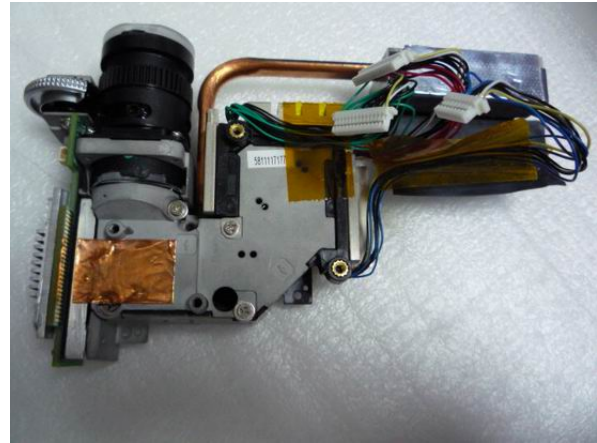
Review the four screws (S04).

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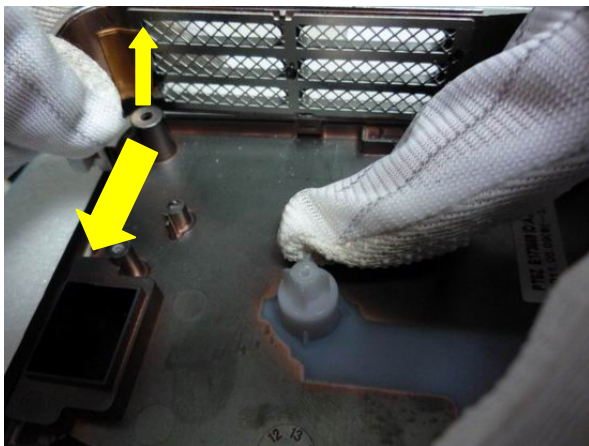
Removing the Optical Engine & Front Cover ASSY



Review the Optical Engine #1.



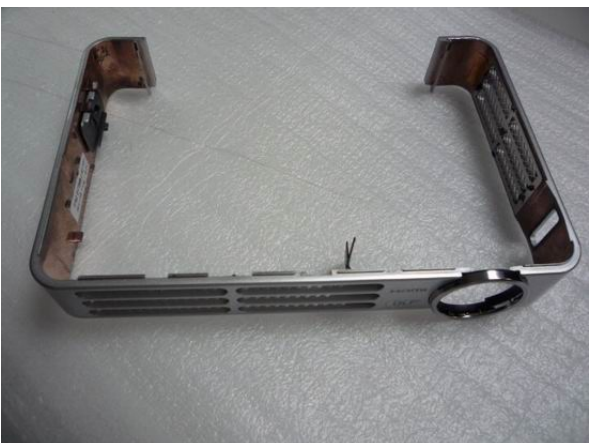
Review the Optical Engine #2.



Remove the front cover like this.



Remove the front cover like this.



Review the front cover.



Review the bottom Cover.

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Appendix. Screw torque

ITEM	Screw Type	P/N	Screw Driver Torque (kg-cm)
S01	SCREW M M2*0.4*5 PAN C S18C NI	3105260800	1.1-1.6
S02	SCREW M M2.5*0.45*4 PAN C S18C NI	3105145300	1.8-2.2
S03	SCREW T ϕ 2*0.8*5 PAN C S20C NI	3105040600	2-3
S04	STAND OFF STEEL HEX 4.7*3.1 F	3461519701	3.3-3.7

5. Firmware Download

5-1. Projector USB Drivers Installation Guide

The document is to describe a Windows application software “**DLP Composer Lite**” for projector firmware.

Its main purpose is to provide a detailed procedure of upgrading the application software of a DLP projector.

The system requirement and the installation procedure of “**DLP Composer Lite v10.0**” are also included in the document.

Note:

1. User must have administrative privileges on the target computer in order to install the driver.
2. The installation target directory must not be write-protected.
User also required having the basic knowledge of Windows application installation.

Attention: This utility is for DLP™ DDP2000/2230/243x serial projectors.

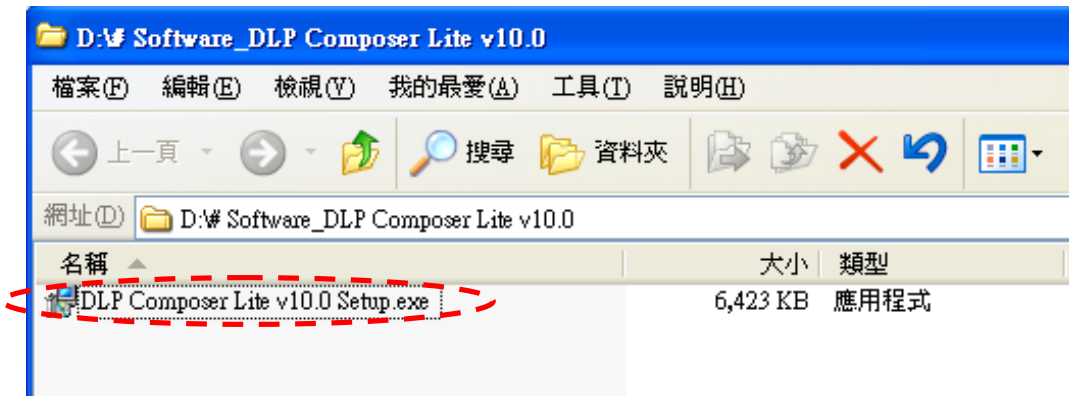
System Requirement

1. IBM compatible PC (Desk Top).
2. Windows XP-SP2 operating system.

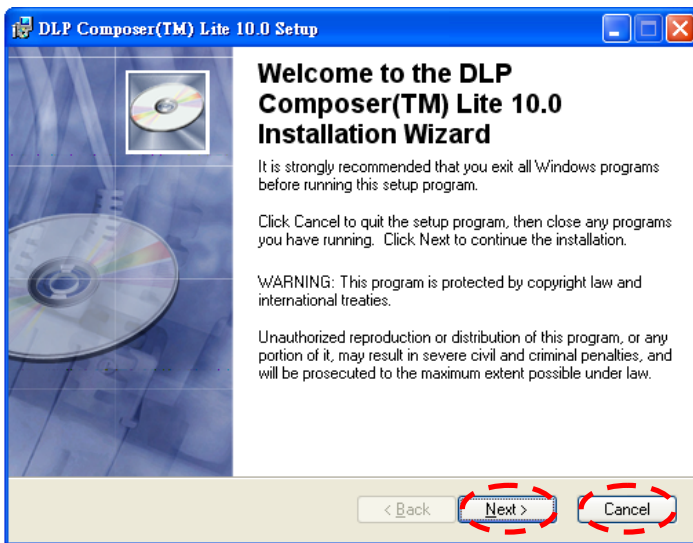
Install “DLP Composer Lite” to PC

Run the “**DLP Composer Lite v10.0 Setup.exe**”.

The following pictures are illustrating the process of the Driver installation.



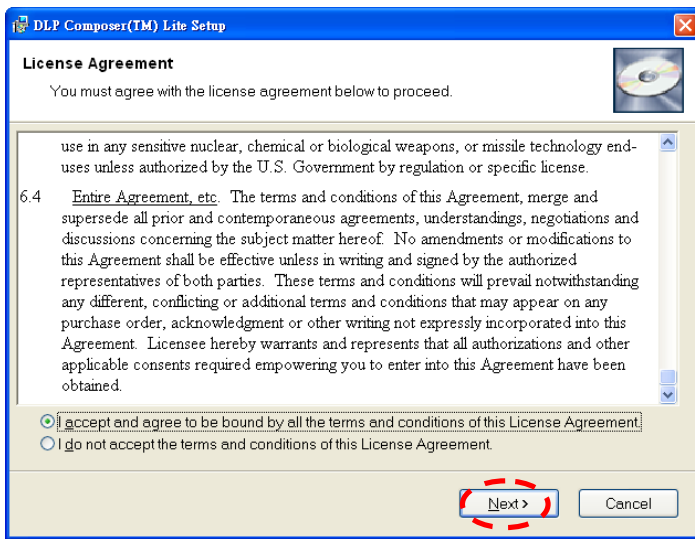
Start-up page:



Click on the “**Next**” button to continue.

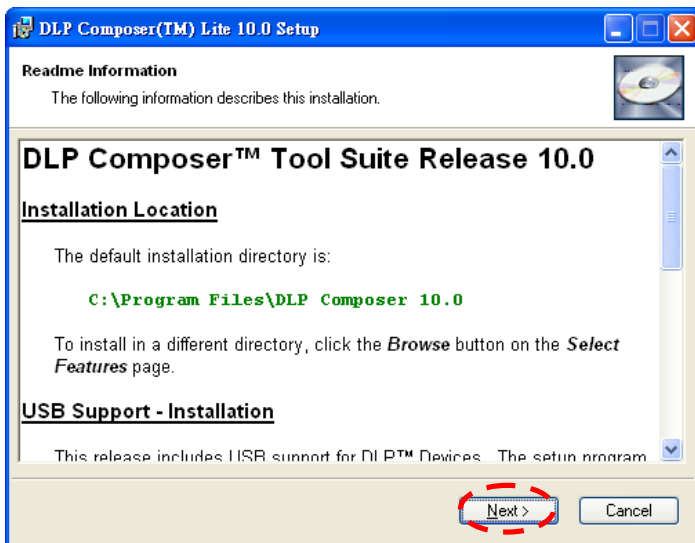
or

Click on the “**Cancel**” button to cancel the installation.



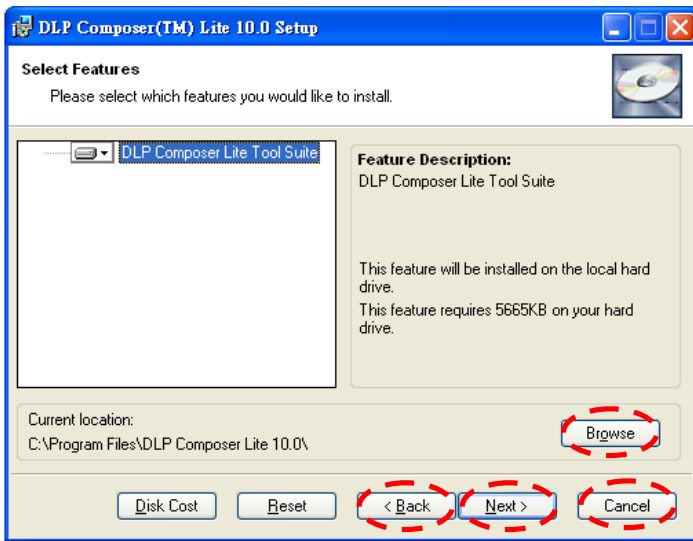
Click on the “**I accept agree to be bound by all the terms and conditions of this License Agreement**” point to continue.

Click on the “**Next**” button to continue.



Click on the “**Next**” button to continue.

The default installation direction is C:\Program Files\DLP Composer 10.0



Click on the “**Browse**” button to change the default directory for saving the drive file somewhere else.

or

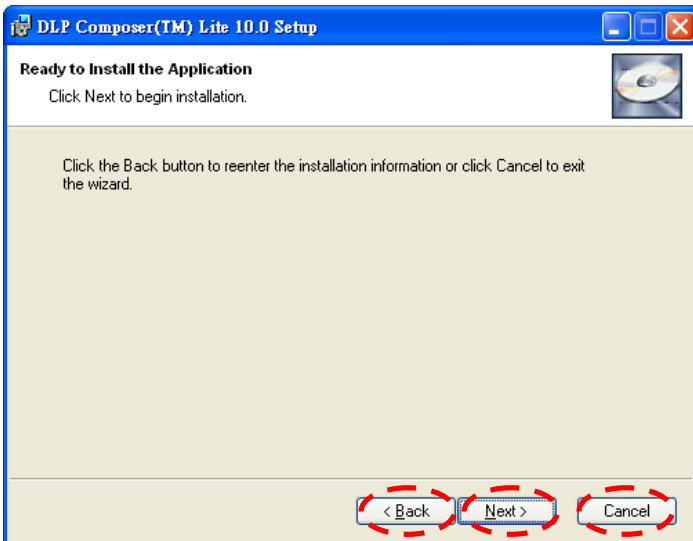
Click on the “**Back**” button to return to the previous page.

or

Click on the “**Cancel**” button to cancel the installation.

or

Click on the “**Next**” button to continue.

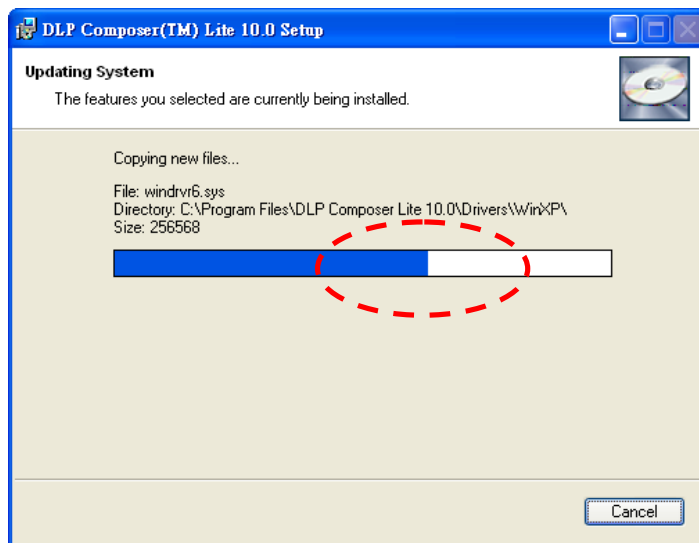


Click on the “**Back**” button to return to the previous page.

or

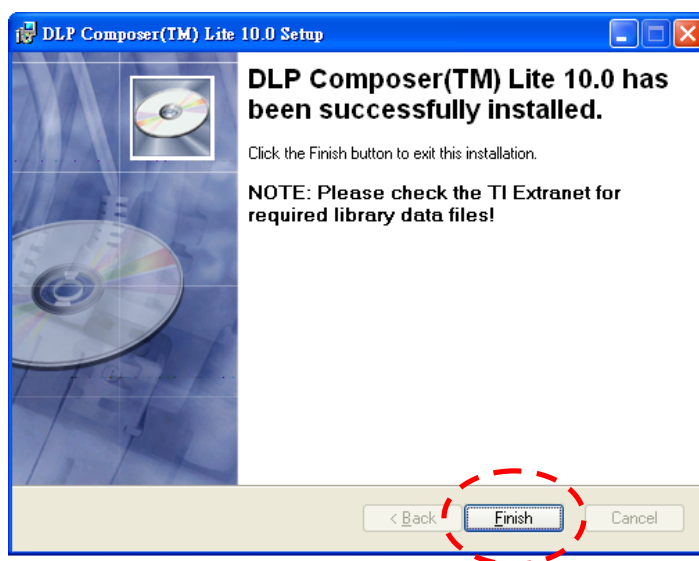
Click on the “**Next**” button to continue or

Click on the “**Cancel**” button to cancel the installation.



Please wait for the installation to complete.

Installation Completed:



Click on the “**Finish**” button with the Installation Completed.

Replicate the program file “**FlashDeviceParameters.txt**” to PC under path:
“**C:\Program Files\DLP Composer Lite 10.0**”

5-2.

DLP Projector Composer (firmware) User Guide

The document is to describe a Window application software “**DLP Composer Lite**” for projector firmware.

Its main purpose is to provide a detailed procedure of upgrading the application software of a DLP projector.

The system requirement and the installation procedure of “**DLP Composer Lite v10.0**” are also included in the document.

Note:

1. User must have administrative privileges on the target computer in order to install the driver.
2. The installation target directory must not be write-protected.
User also required having the basic knowledge of Windows application installation.

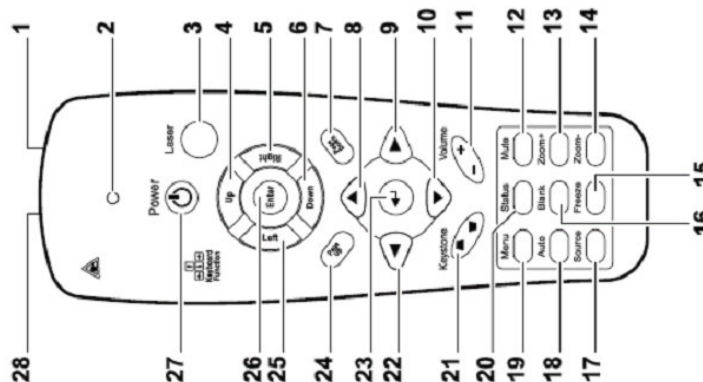
Attention: This utility is for DLP™ DDP2000/2230/2430 serial series projectors.

System Requirement

1. IBM compatible PC (Desk Top).
2. Windows XP-SP2 operating system.

Note:

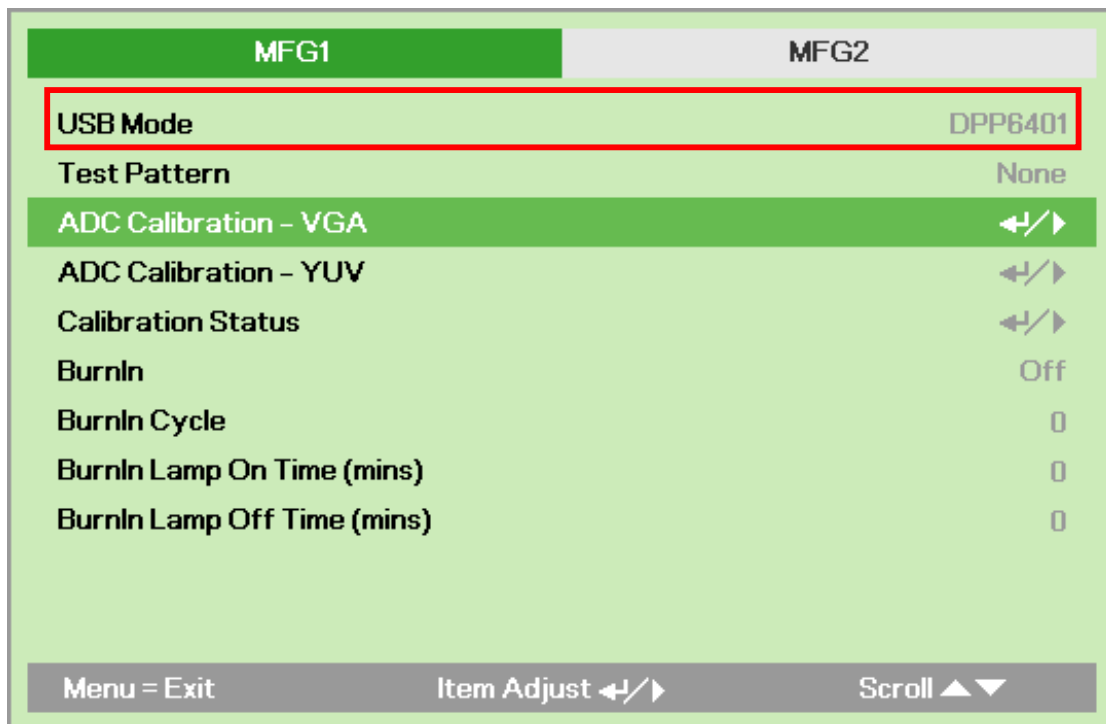
About Qumi enter the MFG Mode method, it's can't be entered by Qumi's originally attached remote control, but can enter by other kind of Vivitek's remote control. Please refer the corrective remote control graph shows as attached figures.



5-3. Started with Download

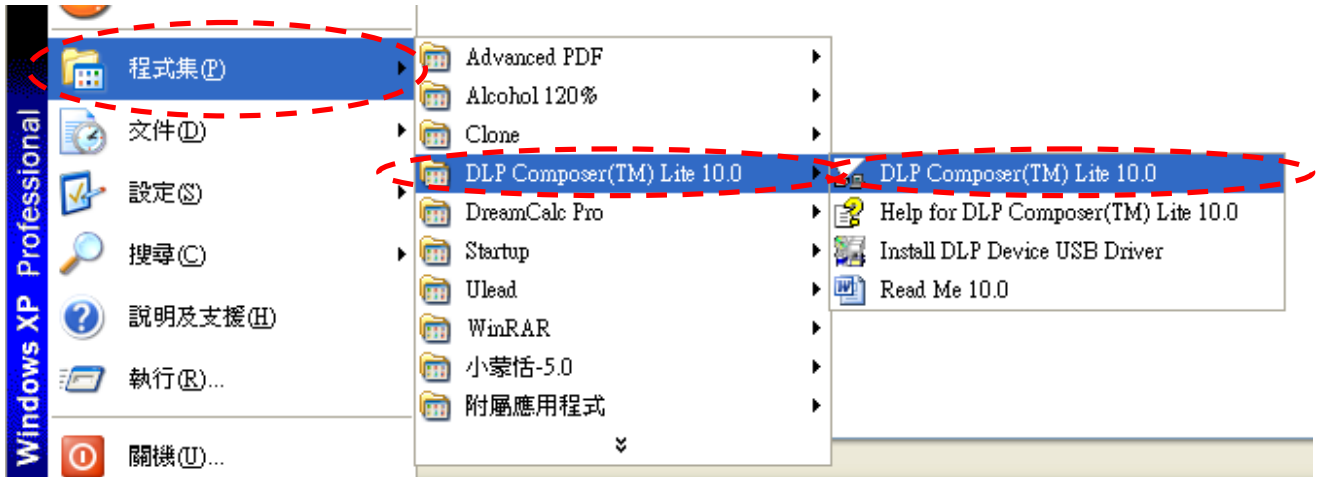
The section is to illustrate the procedure to upgrade the application software of a DLP projector.

Step 1: Power on the projector, press the “**power**” button one time by remote control, then press “**UP**” “**RIGHT**” “**DOWN**” “**LEFT**” button on the keypad or on the remote control, the below OSD menu will display:

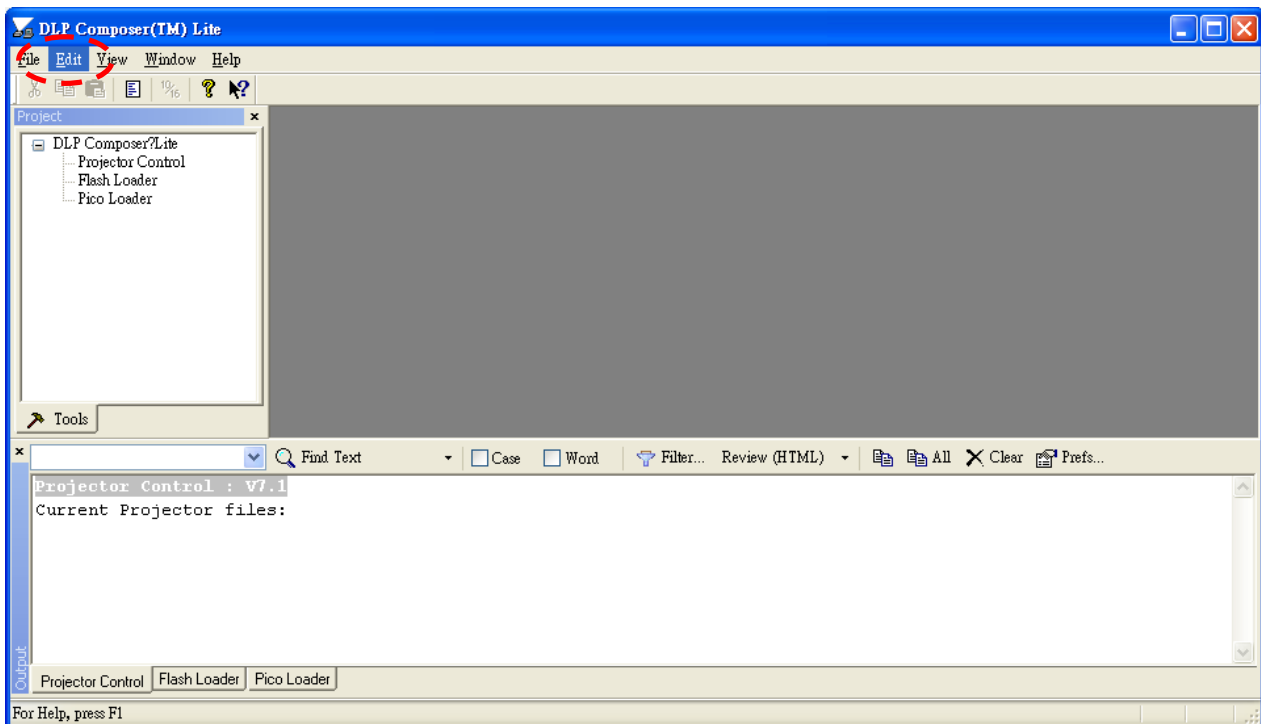


Step 2: Select the “**USD Mode**”, press “**Right**” key oh the keypad or remote control, select the “**DDP6401**”.

Step 3: Launch the “DLP Composer Lite v10.0” from installed shortcut at
Program > DLP Composer(TM) Lite 10.0 > DLP Composer(TM) Lite 10.0.exe



Step 4: While executed, The window shall appear as the following picture.

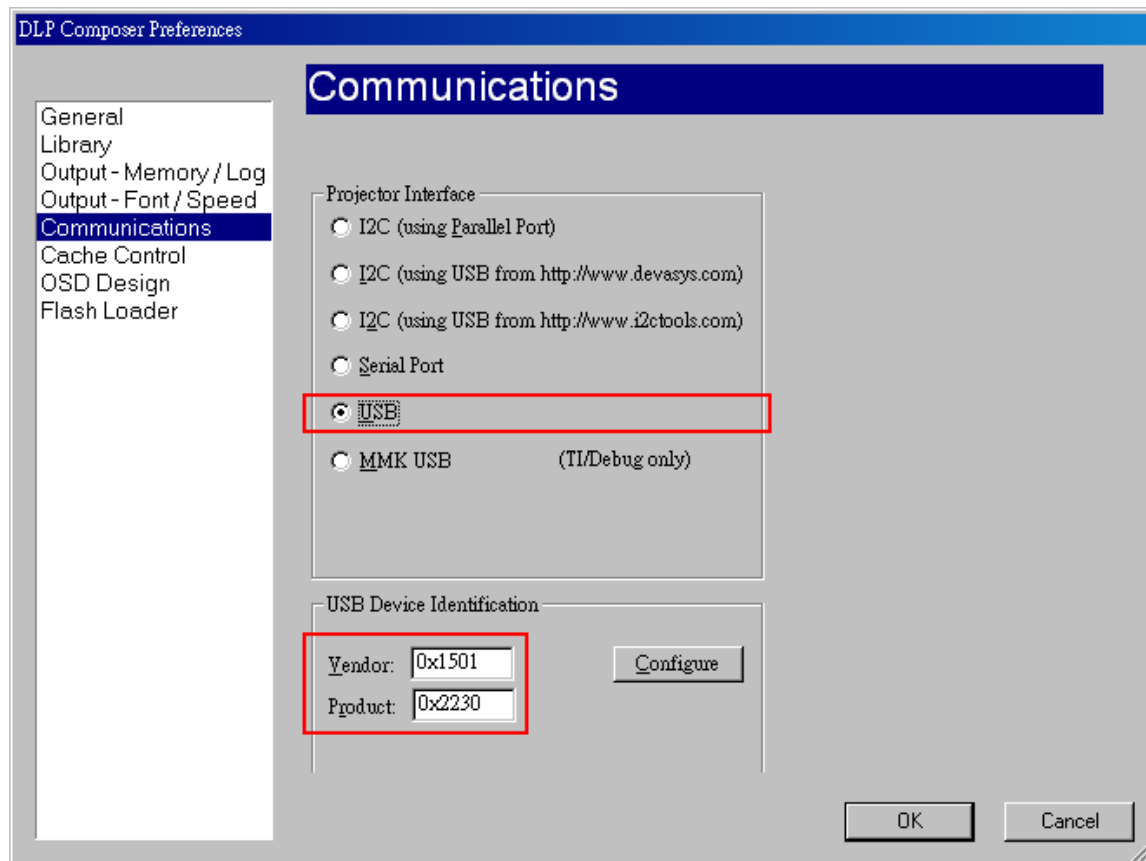


Click on the “Edit” button to continue to the “DLP Composer Preferences” page.

Step 5: Make sure that the USB cable is firmly connected between projector and computer.

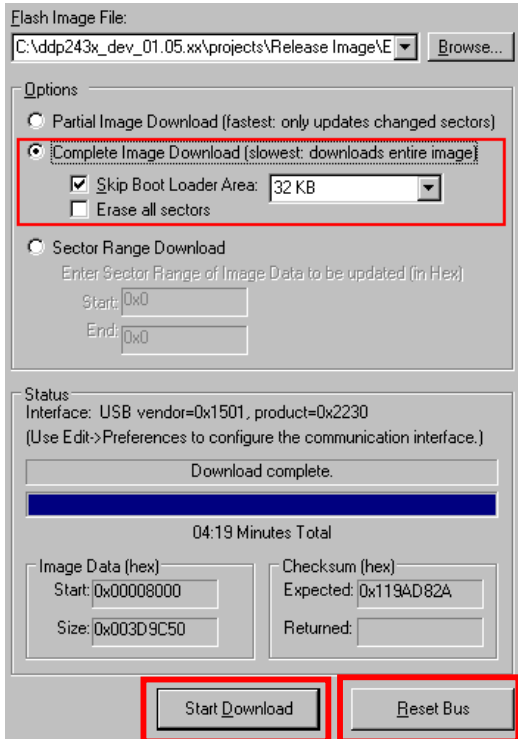
Step 6: Click on the “**Communications**” button to continue to the “**Communications**” page.

Note: Please make sure the setting in Communications as bellow picture

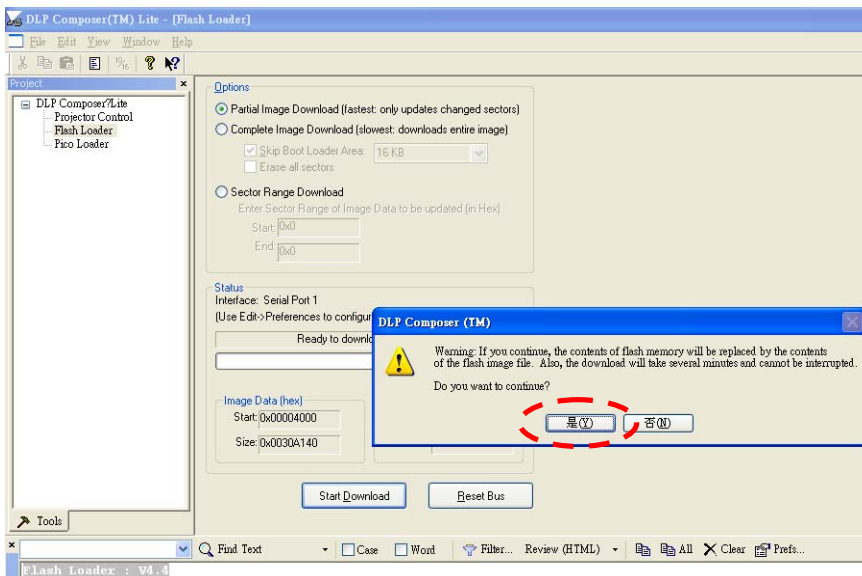


Step 7: At Flash Loader page, used the Brower button to select the correct file.

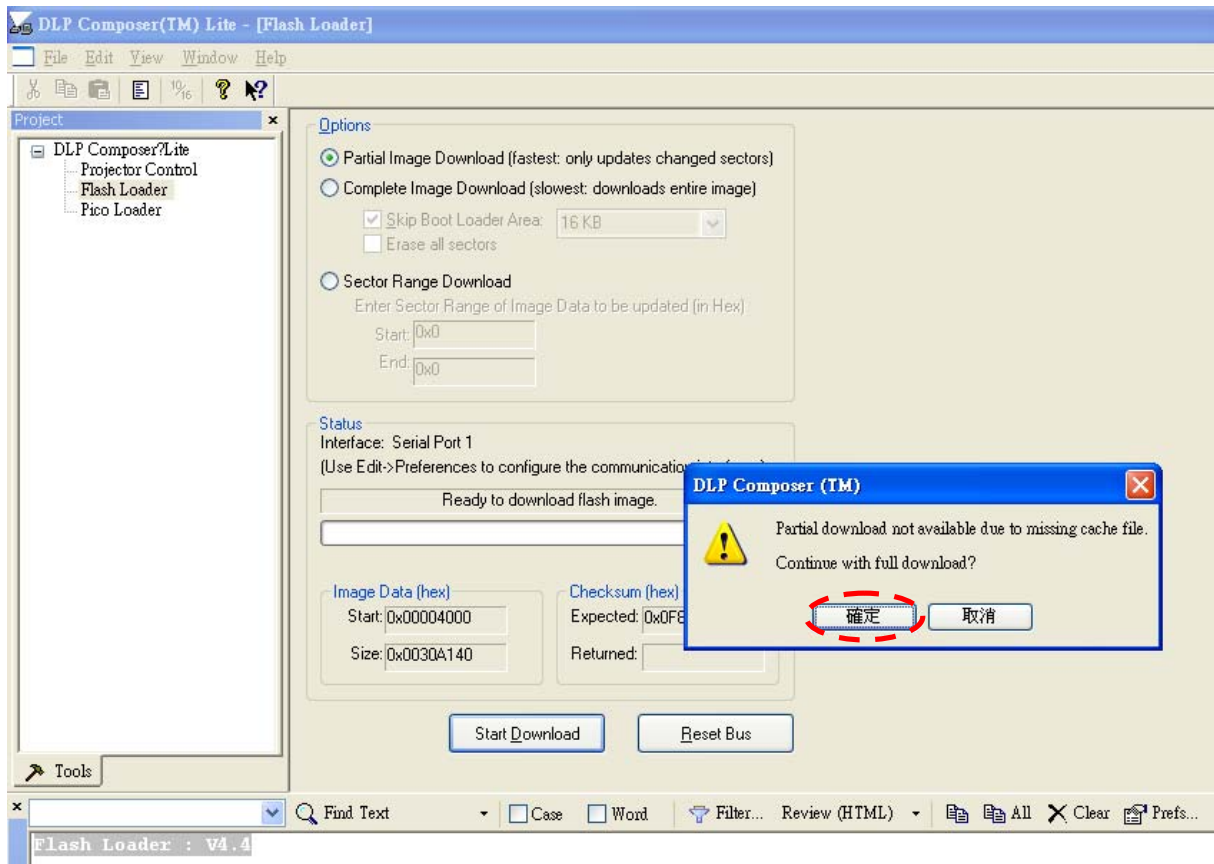
Then Pressed **“Reset Bus”** and next pressed **“Start Download”** to start upgrade flash.



Step 8:



A warning message box will appear for confirmation. Press <Y> to continue.

Step 9:

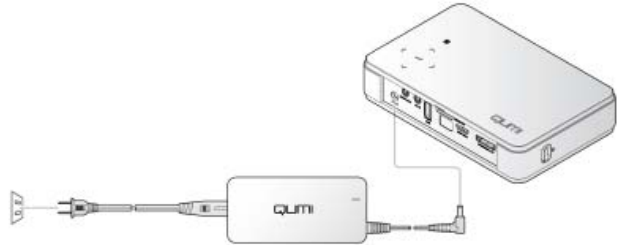
When the last warning message box appears, this is the last chance to cancel the update. Press “Confirm” button to start the firmware update.

Complete the download, power off the projector, then press the “**Right**” key on the keypad all along when power on the Qumi, until the “**Left**” key on the keypad blink three times, that means the EPPORM is cleaned out.

5-4. Starting and shutting down the projector.

1. Connect the AC power cord to the Qumi.
Connect the other end of the AC power adapter to a wall outlet

Note: Adapter models may vary between regions.



2. Then slide  **POWER** switch to turn on the Qumi.



3. The Qumi splash screen displays and connected devices are detected.



4. If more than one input device is connected, press the **SOURCE** button on the remote control and use ▲▼ to select the applicable devices or press ▲ and ▼ or ◀ and ▶ at the same time on the keypad on the Qumi.



- VGA: Analog RGB
- Component: DVD input YCbCr / YPbPr, or HDTV input YPbPr
- Composite Video: Traditional composite video
- HDMI: HDMI
- USB: microSD card / USB disc

5. Slide  **POWER** switch to turn off the Qumi.

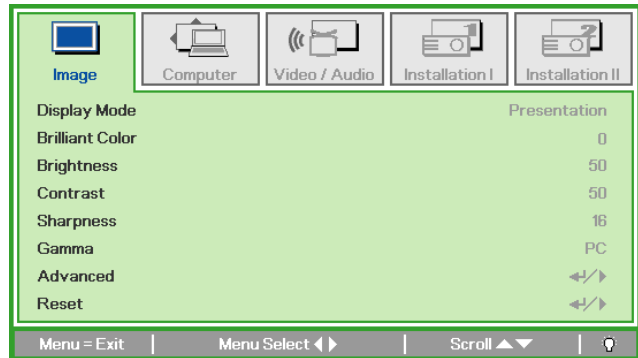


5-5. Setting an Access Password (Security Lock)

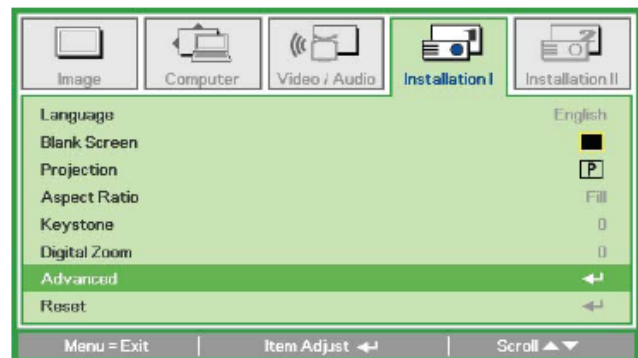
To prevent unauthorized use of the Qumi, you can create a password. When the access password function is enabled, the password must be entered after the Qumi has been turned on.

Creating a password can be done by performing the following steps:

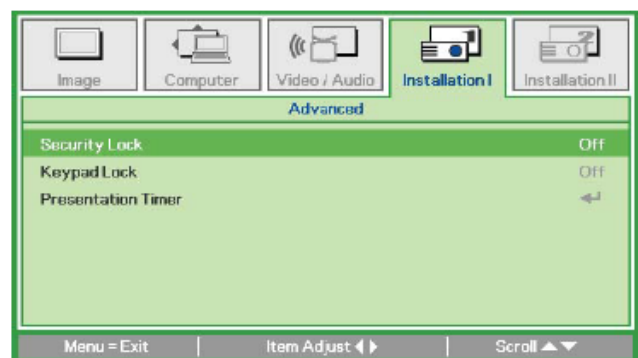
- 1 Press the **MENU** button on the remote control or press **MENU** and **←** on the keypad simultaneously to open the On-Screen display OSD menu.
- 2 Move the cursor to move to the **Installation I** menu down to select **Advanced**.



- 3 Press the cursor **▲▼** button to select **Security Lock**.
- 4 Press the cursor **◀▶** button to enable or disable security lock function.

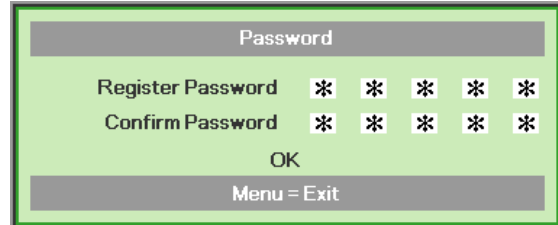
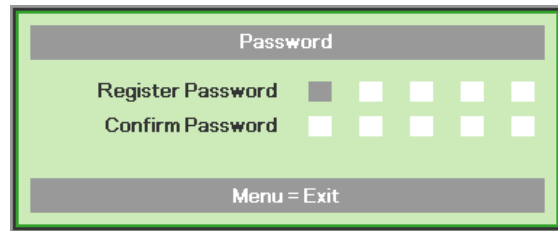


A password dialog box automatically appears.

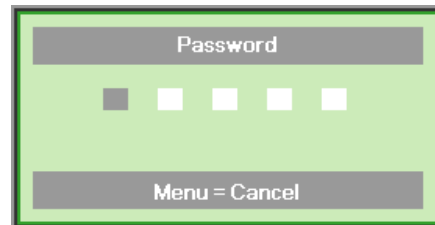


- 5 You can use the cursor buttons ▲▼◀▶ either on keypad or IR remote control for password entry. You can use any combination including the same arrow five times, but not less than five.

Press the cursor buttons in any order to set the password. Push the **MENU** button to exit the dialog box.



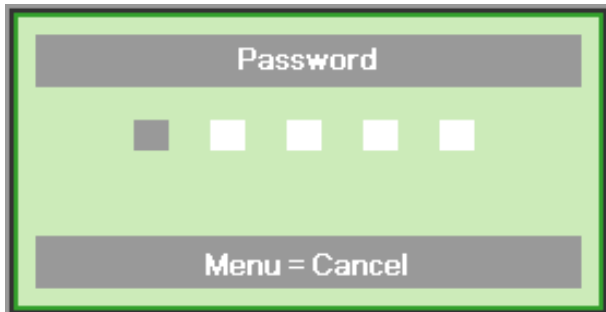
6. The password confirm menu appears when you power on the Qumi when the **Security Lock** is enabled. Enter the password in the order you set it at step 5.



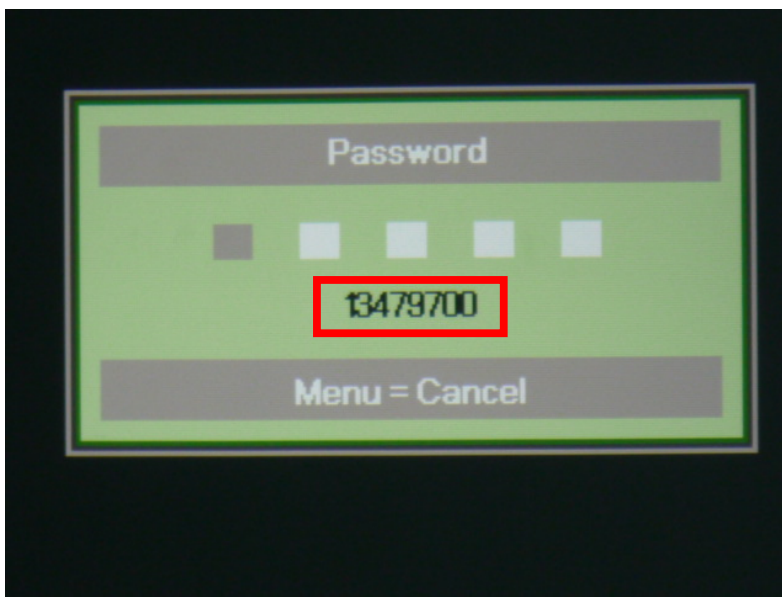
7. **Forget the password recovery** (only used in the service center not to be in the end-user side)
Still pressed "MENU" key and plug the AC power cord when Power LED going to flashing=> Phase a short time =>flash three times.

5-6. DLP Projector security unlock

When you forget the password,



Please input the wrong password five times by the remote control, then the projector will display a "Hint code" on the screen.



Write down the recall code number.

Projector OSD for password check & reset

The document is to describe Windows application software "DLPUnlock" for projector password unlock. Its main purpose is to provide a way to reset the forgotten password; the application will ship to the call-center and help the validated end-user to reset the password.

Projector: XXXXX

Hint Code: 60800000

Unlock-Me

43331

This utility decodes the hint code into unlock keys.
Input the hint code into Code box above, press the Unlock-Me button, you'll find the decoded keys which related to the left remote controller drawing.
Hit remote controller to swap available different types.

Strictly Confidential! NOT for end user!

Hint code Input at here.

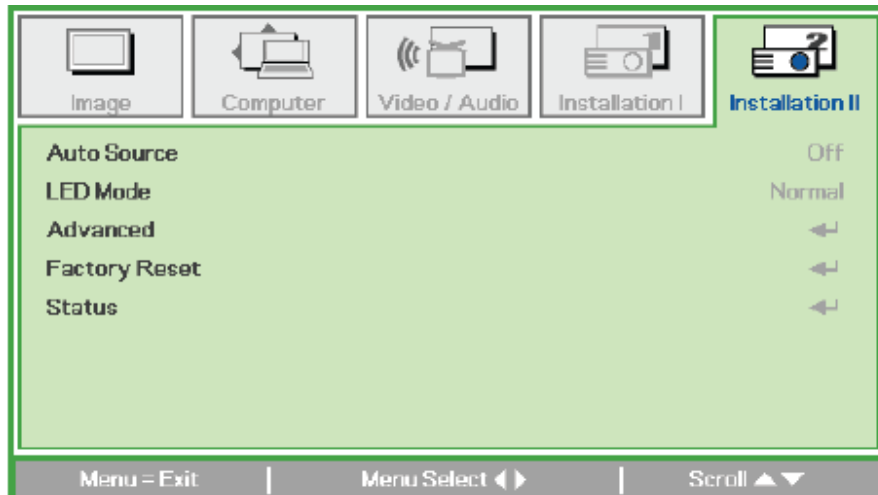
User can get the hint code from projector OSD.

Press here to generate the key

Key for resetting the password

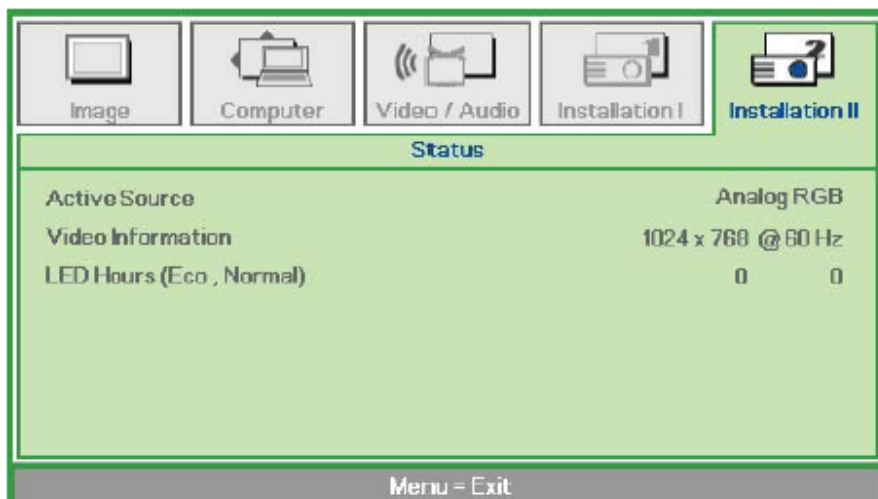
5-7. Factory Reset

Press the cursor ▲▼ button to move up and down in the **Installation II** menu. Select the **Factory Reset** sub menu and press ◀ (Enter) / ▶ to reset all the menu items to the factory default values. (Expect Language and Security Lock).



5-8. Status

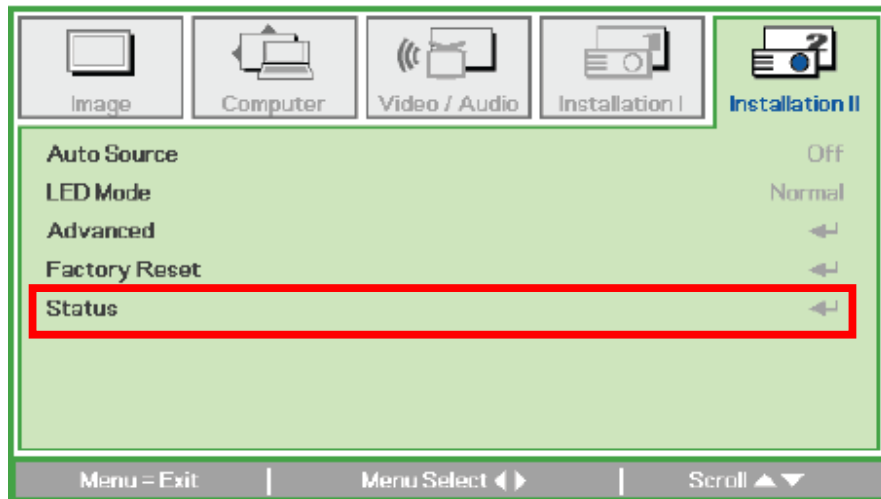
Press the cursor ▲▼ button to move up and down in the **Installation II** menu. Select the **Installation II** sub menu and press ◀ (Enter) / ▶ to enter the **Status** sub menu.



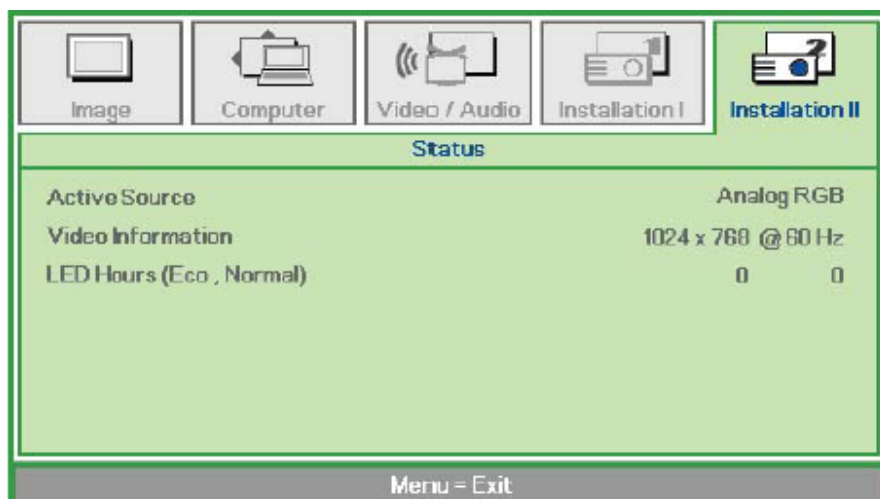
6. Calibration

Step of into Service Mode

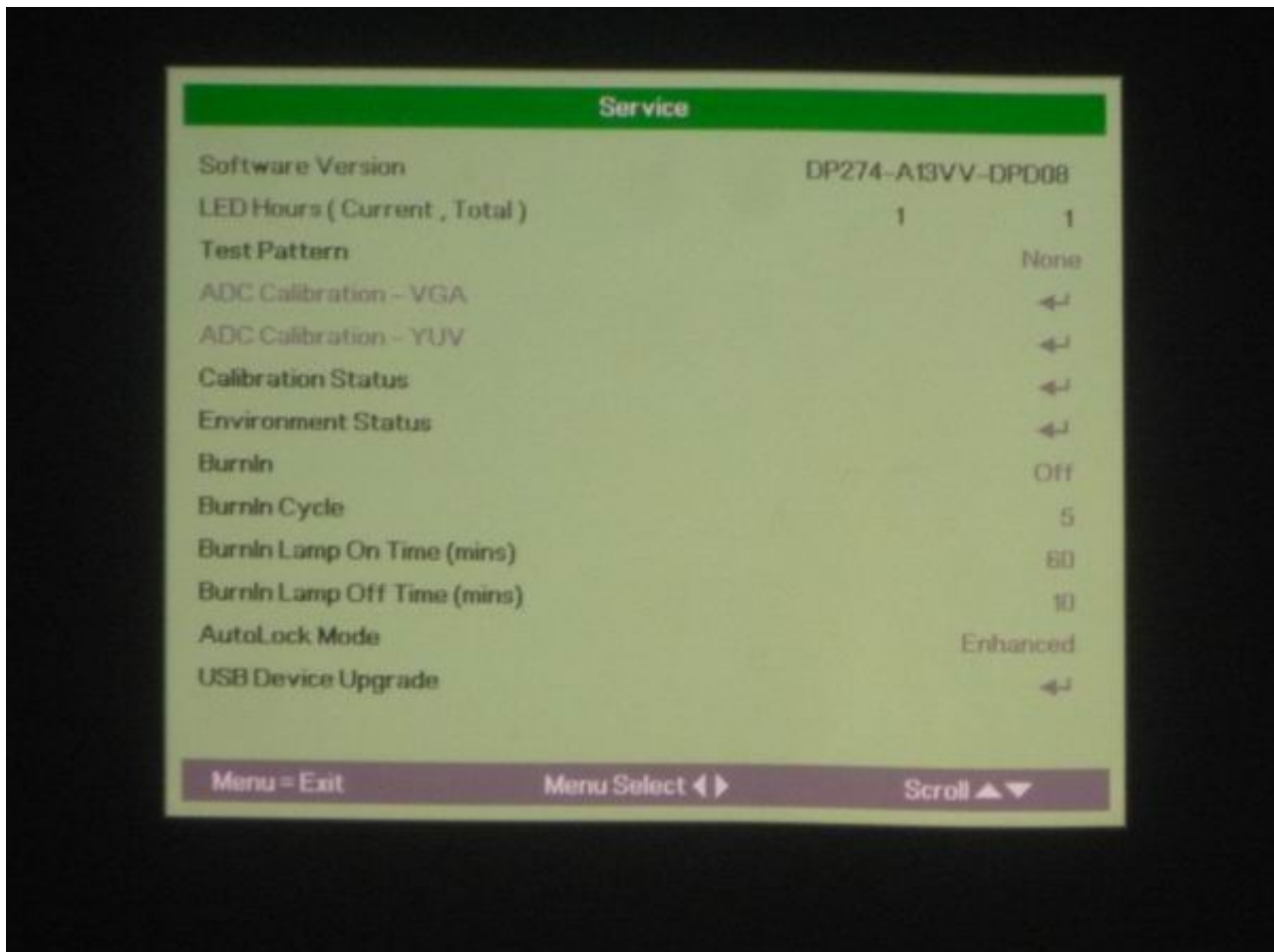
Step 1 : Turn on the projector, press the **MENU** “ button on the keypad or IR controller,
Then select **“Installation II”**, then press **“ Down ”** button and select **“ Status ”**



Step 2 : Press **“Enter”** button on the keypad or on the remote controller, and will display below OSD menu.



Step 3: Press “ **Enter** ” button twice by remote control, then press “ **(UP) (DOWN)** **(LEFT) (RIGHT)**” by remote control, the service mode OSD as below shows:



6-1. ADC Adjust Procedure -- (Optional)

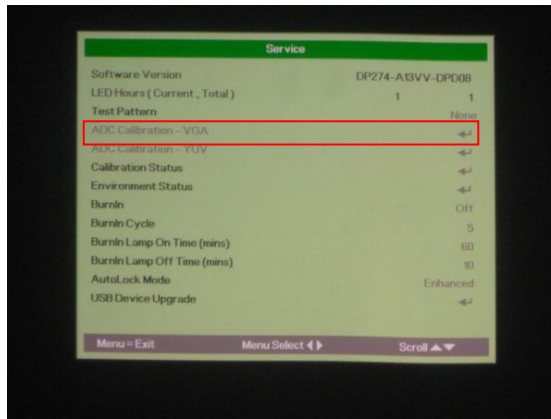
A. Function Description :

ADC Calibration – VGA : Calibrating Analog RGB signal

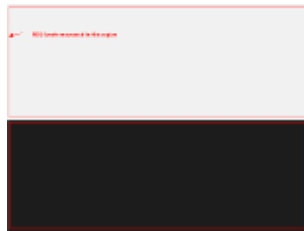
Calibration Status : Status of VGA calibrated value

B. Calibrate Analog RGB (1024x768@60Hz XGA):

Step 1 : In Service Mode select ADC Calibration - VGA In this menu input pattern with White(240,240,240) and Black(16,16,16) for calibrate VGA Source . After input ready press “Enter” to calibration ◦



Input Pattern



Step 2 : After complete the OSD will show the picture as follow , if not complete, just close the OSD ◦

Note : Offset & Gain Value

Calibration Status - VGA	
Gain - Red	0
Gain - Green	0
Gain - Blue	0
Offset - Red	0
Offset - Green	0
Offset - Blue	0
Calibration Status - YUV	
Red Mid-level Offset	0
Blue Mid-level Offset	0
Menu - Exit	

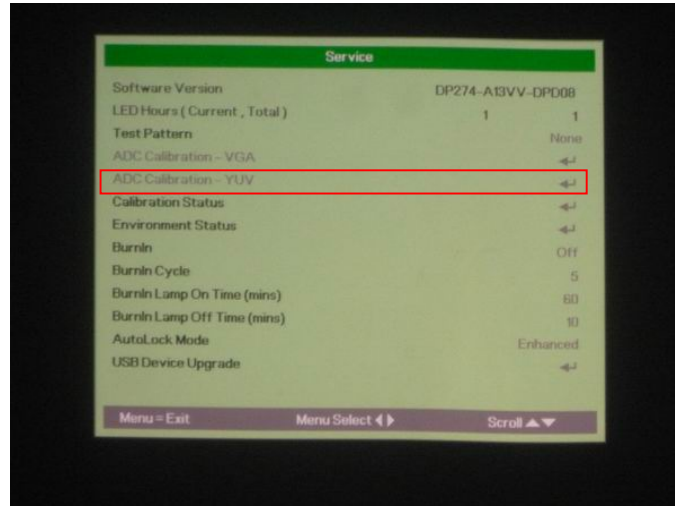
	Default	After ADC
Offset	511	
Gain	511	

Step 3 : Compare internal white pattern and RGB source white pattern, if the brightness gap ratio of these two source is bigger than 3.5%.

6-2. Calibrate Analog YUV

Equipment: VG828, must be take off H/V sync terminal from machine.

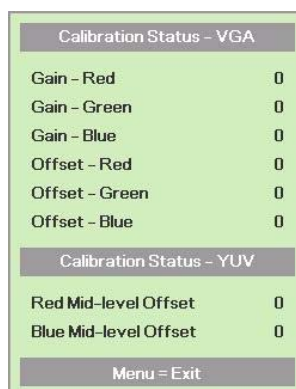
Step 1 : In Service Mode select ADC Calibration - YUV. In this menu input pattern with 75% SMPTE pattern for calibrate YUV Source and notice that the input source must be 480i format .
After input ready press "Enter"key to proceed .



Input Pattern



Step 2 : After complete the OSD will show the picture as follow, if not complete, just close the OSD .



NOTE:

You can select Calibration Status – VGA or Calibration Status – YUV item to watch the calibrated value at any time .

7. EDID

Analog

EDID Block 0, Bytes 0-127 [00H-7FH]

Block Type: EDID 1.3

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	12	03	A1	74	01	01	01	01
10	01	15	01	03	00	00	00	78	0A	F4	4A	B2	4C	2B	C4	26
20	07	4C	59	BF	EF	80	45	7C	61	7C	81	FC	81	00	81	80
30	90	40	95	00	A9	40	9E	20	00	90	51	20	1F	30	48	80
40	36	00	00	00	00	00	00	18	01	1D	00	72	51	D0	1E	20
50	6E	28	55	00	00	00	00	00	00	18	00	00	00	FD	00	2B
60	78	1E	64	11	00	0A	20	20	20	20	20	00	00	00	00	FC
70	00	50	52	4F	4A	45	43	54	4F	52	0A	20	20	20	01	F4

- (08H-09H) ID Manufacturer Name _____ = DPC
- (0AH-0BH) Product ID Code _____ = 74A1(t)
- (0CH-0FH) Last 5 Digits of Serial Number _____ = UNUSE
- (10H) Week of Manufacture _____ = 01
- (11H) Year of Manufacture _____ = 2011
- (12H) EDID Version Number _____ = 1
- (13H) EDID Revision Number _____ = 3
- (14H) VIDEO INPUT DEFINITION:
- Analog Signal
- 0.700, 0.300 (1.000 Vp-p)
- Error: (0-5) Incorrect Video Information Byte
- (15H) Maximum Horizontal Image Size _____ = mm
- (16H) Maximum Vertical Image Size _____ = mm
- (17H) Display Gamma _____ = 2.20
- (18H) DPMS and Supported Feature(s):
- Preferred Timing Mode
- Display Type = R/G/B Color
- (19H-22H) CHROMA INFO:
- Red x - 0.698 Green x - 0.169 Blue x - 0.149 White x - 0.299
- Red y - 0.300 Green y - 0.766 Blue y - 0.027 White y - 0.350
- (23H) ESTABLISHED TIMING I:
- 720 x 400 @ 70Hz (IBM,VGA)

640 x 480 @ 60Hz (IBM,VGA)
 640 x 480 @ 67Hz (Apple,Mac II)
 640 x 480 @ 72Hz (VESA)
 640 x 480 @ 75Hz (VESA)
 800 x 600 @ 56Hz (VESA)
 800 x 600 @ 60Hz (VESA)

(24H) ESTABLISHED TIMING II:

800 x 600 @ 72Hz (VESA)
 800 x 600 @ 75Hz (VESA)
 832 x 624 @ 75Hz (Apple,Mac II)
 1024 x 768 @ 60Hz (VESA)
 1024 x 768 @ 70Hz (VESA)
 1024 x 768 @ 75Hz (VESA)
 1280 x 1024 @ 75Hz (VESA)

(25H) Manufacturer's Reserved Timing:

1152 x 870 @ 75Hz (Apple,Mac II)

(38-53) Standard Timing Identification:

Standard Timing ID 1: 800 x 600 @120Hz
 Standard Timing ID 2: 1024 x 768 @120Hz
 Standard Timing ID 3: 1280 x 720 @120Hz
 Standard Timing ID 4: 1280 x 800 @60Hz
 Standard Timing ID 5: 1280 x 1024 @60Hz
 Standard Timing ID 6: 1400 x 1050 @60Hz
 Standard Timing ID 7: 1440 x 900 @60Hz
 Standard Timing ID 8: 1600 x 1200 @60Hz

(36H-47H) Detailed Timing / Descriptor Block 1:

1280x800 Pixel Clock: 83.50 MHz

Horizontal Image Size: 0 mm

Vertical Image Size: 0 mm

Refreshed Mode: Non-Interlaced

Normal Display - No Stereo

Horizontal:

Active Count: 1280 pixels

Blanking Count: 400 pixels

Sync Offset: 72 pixels

Sync Pulse Width: 128 pixels

Border: 0 pixels

Frequency: 49.70 kHz

Vertical:

Active Count: 800 lines

Blanking Count: 31 lines

Sync Offset: 3 lines

Sync Pulse Width: 6 lines

Border: 0 lines

Frequency: 59.81 Hz

Digital Separate, Horizontal Polarity (-) Vertical Polarity (-)

(48H-59H) Detailed Timing / Descriptor Block 2:

1280x720 Pixel Clock: 74.25 MHz

Horizontal Image Size: 0 mm

Vertical Image Size: 0 mm

Refreshed Mode: Non-Interlaced

Normal Display - No Stereo

Horizontal:

Active Count: 1280 pixels

Blanking Count: 370 pixels

Sync Offset: 110 pixels

Sync Pulse Width: 40 pixels

Border: 0 pixels

Frequency: 45.00 kHz

Vertical:

Active Count: 720 lines

Blanking Count: 30 lines

Sync Offset: 5 lines

Sync Pulse Width: 5 lines

Border: 0 lines

Frequency: 60.00 Hz

Digital Separate, Horizontal Polarity (-) Vertical Polarity (-)

(5AH-6BH) Detailed Timing / Descriptor Block 3:

Monitor Range Limits:

Min Vertical Freq - 43 Hz

Max Vertical Freq - 120 Hz

Min Horiz. Freq - 30 kHz

Max Horiz. Freq - 100 kHz

Pixel Clock - 170 MHz

GTF - Not Used

(6CH-7DH) Detailed Timing / Descriptor Block 4:

Monitor Name:

PROJECTOR

(7EH) Block No: (01) Extension EDID Block(s)

(7FH) CheckSum OK

HDMI**EDID Block 0, Bytes 0-127 [00H-7FH]****Block Type: EDID 1.3**

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	12	03	A1	74	01	01	01	01
10	01	15	01	03	80	00	00	78	0A	30	03	B2	4C	2B	C4	26
20	07	4A	59	BF	EF	80	45	7C	61	7C	81	FC	81	00	81	80
30	90	40	95	00	A9	40	9E	20	00	90	51	20	1F	30	48	80
40	36	00	00	00	00	00	00	18	01	1D	00	72	51	D0	1E	20
50	6E	28	55	00	00	00	00	00	00	18	00	00	00	FD	00	2B
60	78	1E	64	11	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	50	52	4F	4A	45	43	54	4F	52	0A	20	20	20	01	81

- (08H-09H) ID Manufacturer Name _____ = DPC
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- Digital Signal
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- (17H) Display Gamma _____ = 2.20
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- Red y - 0.300 Green y - 0.766 Blue y - 0.027 White y - 0.351
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- 640 x 480 @ 72Hz (VESA)
- 640 x 480 @ 75Hz (VESA)
- 800 x 600 @ 56Hz (VESA)

- 800 x 600 @ 60Hz (VESA)
- (24H) ESTABLISHED TIMING II:
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- 800 x 600 @ 75Hz (VESA)
- 832 x 624 @ 75Hz (Apple,Mac II)
- 1024 x 768 @ 60Hz (VESA)
- 1024 x 768 @ 70Hz (VESA)
- 1024 x 768 @ 75Hz (VESA)
- 1280 x 1024 @ 75Hz (VESA)
- (25H) Manufacturer's Reserved Timing:
- 1152 x 870 @ 75Hz (Apple,Mac II)
- (38-53) Standard Timing Identification:
- Standard Timing ID 1: 800 x 600 @120Hz
- Standard Timing ID 2: 1024 x 768 @120Hz
- Standard Timing ID 3: 1280 x 720 @120Hz
- Standard Timing ID 4: 1280 x 800 @60Hz
- Standard Timing ID 5: 1280 x 1024 @60Hz
- Standard Timing ID 6: 1400 x 1050 @60Hz
- Standard Timing ID 7: 1440 x 900 @60Hz
- Standard Timing ID 8: 1600 x 1200 @60Hz

(36H-47H) Detailed Timing / Descriptor Block 1:

1280x800 Pixel Clock: 83.50 MHz

Horizontal Image Size: 0 mm

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Normal Display - No Stereo

Horizontal:

Active Count: 1280 pixels

Blanking Count: 400 pixels

Sync Offset: 72 pixels

Sync Pulse Width: 128 pixels

Border: 0 pixels

Frequency: 49.70 kHz

Vertical:

Active Count: 800 lines

Blanking Count: 31 lines

Sync Offset: 3 lines

Sync Pulse Width: 6 lines

Border: 0 lines

Frequency: 59.81 Hz

Digital Separate, Horizontal Polarity (-) Vertical Polarity (-)

(48H-59H) Detailed Timing / Descriptor Block 2:1280x720 Pixel Clock: 74.25 MHz

Horizontal Image Size: 0 mm

Vertical Image Size: 0 mm

Refreshed Mode: Non-Interlaced

Normal Display - No Stereo

Horizontal:

Active Count: 1280 pixels

Blanking Count: 370 pixels

Sync Offset: 110 pixels

Sync Pulse Width: 40 pixels

Border: 0 pixels

Frequency: 45.00 kHz

Vertical:

Active Count: 720 lines

Blanking Count: 30 lines

Sync Offset: 5 lines

Sync Pulse Width: 5 lines

Border: 0 lines

Frequency: 60.00 Hz

Digital Separate, Horizontal Polarity (-) Vertical Polarity (-)

(5AH-6BH) Detailed Timing / Descriptor Block 3:

Monitor Range Limits:

Min Vertical Freq - 43 Hz

Max Vertical Freq - 120 Hz

Min Horiz. Freq - 30 kHz

Max Horiz. Freq - 100 kHz

Pixel Clock - 170 MHz

GTF - Not Used

(6CH-7DH) Detailed Timing / Descriptor Block 4:

Monitor Name:

PROJECTOR

(7EH) Block No: (01) Extension EDID Block(s)

(7FH) CheckSum OK

EDID Block 1, Bytes 128-255 [80H-FFH]**Block Type: CEA EDID Timing Extension Version 3**

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	02	03	22	71	4F	01	02	15	06	07	16	03	11	12	84	05
10	13	14	10	1F	23	09	07	04	83	01	00	00	65	03	0C	00
20	10	00	02	3A	80	18	71	38	2D	40	58	2C	45	00	00	00
30	00	00	00	18	01	1D	80	18	71	1C	16	20	58	2C	25	00
40	00	00	00	00	00	99	01	1D	80	D0	72	1C	16	20	10	2C
50	25	80	00	00	00	00	00	99	8F	0A	D0	8A	20	E0	2D	10
60	10	3E	96	00	00	00	00	00	00	18	01	1D	00	BC	52	D0
70	1E	20	B8	28	55	40	00	00	00	00	00	18	18	18	18	2D

Extended Block Type: CEA 861B

Detailed Timing Blocks start at Byte:(25H)

Native Format: (0x1)

(03H) DTV (Basic Audio)

(03H) YCbCr (4:4:4)

(03H) YCbCr (4:2:2)

Video Short Block Description:

(05H) 640 x 480 P 59.94/60Hz 4:3

(06H) 720 x 480 P 59.94/60Hz 4:3

(07H) 720(1440) x 576 I 50Hz 4:3

(08H) 720(1440) x 480 I 59.94/60Hz 4:3

(09H) 720(1440) x 480 I 59.94/60Hz 16:9

(0AH) 720(1440) x 576 I 50Hz 16:9

(0BH) 720 x 480 P 59.94/60Hz 16:9

(0CH) 720 x 576 P 50Hz 4:3

(0DH) 720 x 576 P 50Hz 16:9

(0EH) 1280 x 720 P 59.94/60Hz 16:9 Native Mode

(0FH) 1920 x 1080 I 59.94/60Hz 16:9

(10H) 1280 x 720 P 50Hz 16:9

(11H) 1920 x 1080 I 50Hz 16:9

(12H) 1920 x 1080 P 59.94/60Hz 16:9

(13H) 1920 x 1080 P 23.97/24Hz 16:9

(14H) 1920 x 1080 P 25Hz 16:9

(15H) 1920 x 1080 P 29.97/30Hz 16:9

(16H) 1920 x 1080 P 50Hz 16:9

Audio Short Block Description:

Company Confidential

Vivitek _____

Delta _____

Numbers of Audio Channels (2)

(18H) Linear PCM(IEC60958)

Audio Supported: 32kHz, 44.1kHz, 48kHz

Audio Bit Rate: 24Bit

Speaker Short Block Description:

Payload(3 bytes 1CH-1EH)

Speakers (1CH): FL/FR

1DH: Reserved

1EH: Reserved

Vendor Specific Short Block Description:

Bytes: 03H, 0CH, 00H, 10H, 00H

(25H - 37H) Detailed Timing Descriptions:

1920x1080 Pixel Clock: 148.50 MHz

Horizontal Image Size: 0 mm

Vertical Image Size: 0 mm

Refreshed Mode: Non-Interlaced

Normal Display - No Stereo

Horizontal:

Active Count: 1920 pixels

Blanking Count: 280 pixels

Sync Offset: 88 pixels

Sync Pulse Width: 44 pixels

Border: 0 pixels

Frequency: 67.50 kHz

Vertical:

Active Count: 1080 lines

Blanking Count: 45 lines

Sync Offset: 4 lines

Sync Pulse Width: 5 lines

Border: 0 lines

Frequency: 60.00 Hz

Digital Separate, Horizontal Polarity (-) Vertical Polarity (-)

(37H - 49H) Detailed Timing Descriptions:

1920x1080 Pixel Clock: 148.50 MHz

Horizontal Image Size: 0 mm

Vertical Image Size: 0 mm

Refreshed Mode: Interlaced

Stereo

Horizontal:

Active Count: 1920 pixels

Blanking Count: 280 pixels

Sync Offset: 88 pixels

Sync Pulse Width: 44 pixels

Border: 0 pixels

Frequency: 67.50 kHz

Vertical:

Active Count: 1080 lines

Blanking Count: 45 lines

Sync Offset: 2 lines

Sync Pulse Width: 5 lines

Border: 0 lines

Frequency: 60.00 Hz

Digital Separate, Horizontal Polarity (-) Vertical Polarity (-)

(49H - 5BH) Detailed Timing Descriptions:

1920x1080 Pixel Clock: 148.50 MHz

Horizontal Image Size: 0 mm

Vertical Image Size: 0 mm

Refreshed Mode: Interlaced

Stereo

Horizontal:

Active Count: 1920 pixels

Blanking Count: 720 pixels

Sync Offset: 528 pixels

Sync Pulse Width: 44 pixels

Border: 0 pixels

Frequency: 56.25 kHz

Vertical:

Active Count: 1080 lines

Blanking Count: 45 lines

Sync Offset: 2 lines

Sync Pulse Width: 5 lines

Border: 0 lines

Frequency: 50.00 Hz

Digital Separate, Horizontal Polarity (-) Vertical Polarity (-)

(5BH - 6DH) Detailed Timing Descriptions:

720x480 Pixel Clock: 27.03 MHz

Horizontal Image Size: 0 mm

Vertical Image Size: 0 mm

Refreshed Mode: Non-Interlaced

Normal Display - No Stereo

Horizontal:

Active Count: 720 pixels

Blanking Count: 138 pixels

Sync Offset: 16 pixels

Sync Pulse Width: 62 pixels

Border: 0 pixels

Frequency: 31.50 kHz

Vertical:

Active Count: 480 lines

Blanking Count: 45 lines

Sync Offset: 9 lines

Sync Pulse Width: 6 lines

Border: 0 lines

Frequency: 60.01 Hz

Digital Separate, Horizontal Polarity (-) Vertical Polarity (-)

(7FH)

Checksum Valid

8. SERVICE NOTE

Cleaning the Qumi

Cleaning the Qumi to remove dust and grime will help ensure trouble-free operation.

1. The Qumi should be turned off and unplugged before cleaning. Failure to do so may result in injury or damage to the system.
2. Use only a dampened cloth when cleaning. Do not allow water to enter the ventilation openings on the projector.
3. If a little water gets into the projector interior while cleaning, leave unplugged in a well-ventilated room for several hours before using.
4. If a lot of water gets into the projector interior when cleaning, have the projector serviced.

Cleaning the Lens

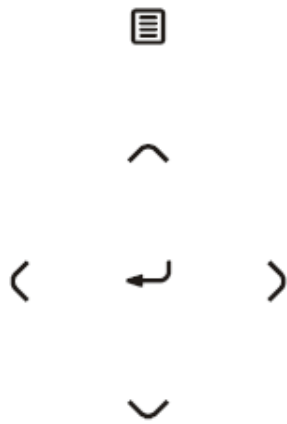
Optical lens cleaning solutions can be purchased from most camera and other retail stores. To clean the Qumi lens, perform the following steps:

1. Apply a small amount of the optic lens cleaning solution to a clean soft cloth.
(Do not apply the cleaner directly to the lens.)
2. Gently wipe the lens in a circular motion.

Caution:

1. Do not use abrasive cleaners or solvents.
2. To prevent discoloration or fading, avoid getting cleaner on the projector case

9. Power & READY LED Blink Code Message



Name	Usage
Menu	Open & exits the OSD
Up Cursor	Navigates or changes setting in the OSD
Left Cursor	Navigates or changes setting in the OSD
Down Cursor	Navigates or changes setting in the OSD
Right Cursor	Navigates or changes setting in the OSD
Enter Cursor	Enter selection when OSD on

LED Error Messages

ERROR CODE MESSAGES	LEFT LED BLINK (BLUE)	RIGHT LED (BLUE)
T1 error, Inlet air(LED)	3 blinks	OFF
T2 error, Red LED	3 blinks	1 blinks
T3 error, Green LED	3 blinks	2 blinks
T4 error, Blue LED	3 blinks	3 blinks
Fan 1 (Blower) error	6 blinks	1 blinks
Fan 2 (System)error	6 blinks	2 blinks
Red LED Thermistor error	8 blinks	1 blinks
Green LED Thermistor error	8 blinks	2 blinks
Blue LED Thermistor error	8 blinks	3 blinks

10. Factory Preset Display Modes

Table of Supported Frequency For 2D Standby mode

The projector can display several resolutions. The following table outlines the resolutions that can be displayed by the projector.

SIGNAL	RESOLUTION	H-SYNC (KHz)	V-SYNC (Hz)	COMPOSITE / S-VIDEO	COMPONENT	RGB	DVI/HDMI
NTSC	—	15.734	60.0	O	—	—	—
PAL/SECAM	—	15.625	50.0	O	—	—	—
VESA	720 x 400	37.9	85.0	—	—	O	O
	640 x 480	31.5	60.0	—	—	O	O
	640 x 480	37.9	72.0	—	—	O	O
	640 x 480	37.5	75.0	—	—	O	O
	640 x 480	43.3	85.0	—	—	O	O
	800 x 600	35.2	56.0	—	—	O	O
	800 x 600	37.9	60.0	—	—	O	O
	800 x 600	48.1	72.0	—	—	O	O
	800 x 600	46.9	75.0	—	—	O	O
	800 x 600	53.7	85.0	—	—	O	O
	1024 x 768	48.4	60.0	—	—	O	O
	1024 x 768	56.5	70.0	—	—	O	O
	1024 x 768	60.0	75.0	—	—	O	O
	1024 x 768	68.7	85.0	—	—	O	O
	1280 x 800	49.7	60.0	—	—	O	O
	1280 x 800	62.8	74.9	—	—	O	O
	1280 x 800	71.6	84.8	—	—	O	O
	1280 x 1024	63.98	60	—	—	O	O
	1280 x 1024	79.98	75	—	—	O	O
	1280 x 1024	91.10	85	—	—	O	O
	1280 x 960	60.0	60	—	—	O	O
	1280 x 960	85.9	85	—	—	O	O
	1400 x 1050	65.3	60.0	—	—	O	O
	1440 x 900	70.6	75.0	—	—	O	O
	1440 x 900	55.6	60.0	—	—	O	O
	1600 x 1200	75	60	—	—	O	O

Apple Mac	640 x 480	35.0	66.68	—	—	O	O
	832 x 624	49.725	74.55	—	—	O	O
	1024 x 768	60.24	75.0	—	—	O	O
	1152 x 870	68.68	75.06	—	—	O	O
SDTV	480i	15.734	60	—	O	—	O
	576i	15.625	50	—	O	—	O
EDTV	480p	31.469	60	—	O	—	O
	576p	31.25	50	—	O	—	O
HDTV	720p	37.5	50	—	O	—	O
	720p	45.0	60	—	O	—	O
	1080i	33.8	60.0	—	O	—	O
	1080i	28.1	50.0	—	O	—	O
	1080p	67.5	60.0	—	O	—	O
	1080p	56.3	50.0	—	O	—	O

O: Frequency supported

—: Frequency not supported

* : Displayable level

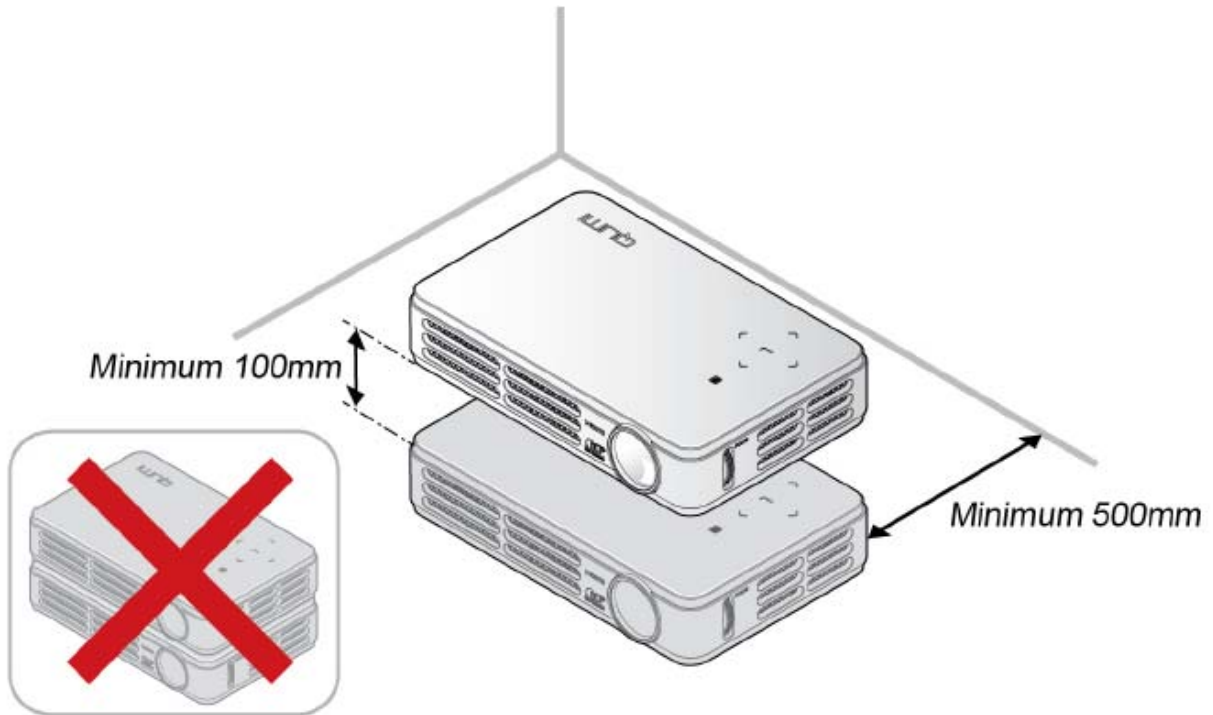
The resolution of the panel is listed below:

Qumi - 1280 x 800 (WXGA)

Resolution other than native resolution may display uneven size of text or lines.

11. Projector Installation Notice

Allow at least a 50cm clearance around the exhaust vent



Make sure that the intake vents do not recycle hot air from the exhaust vent.

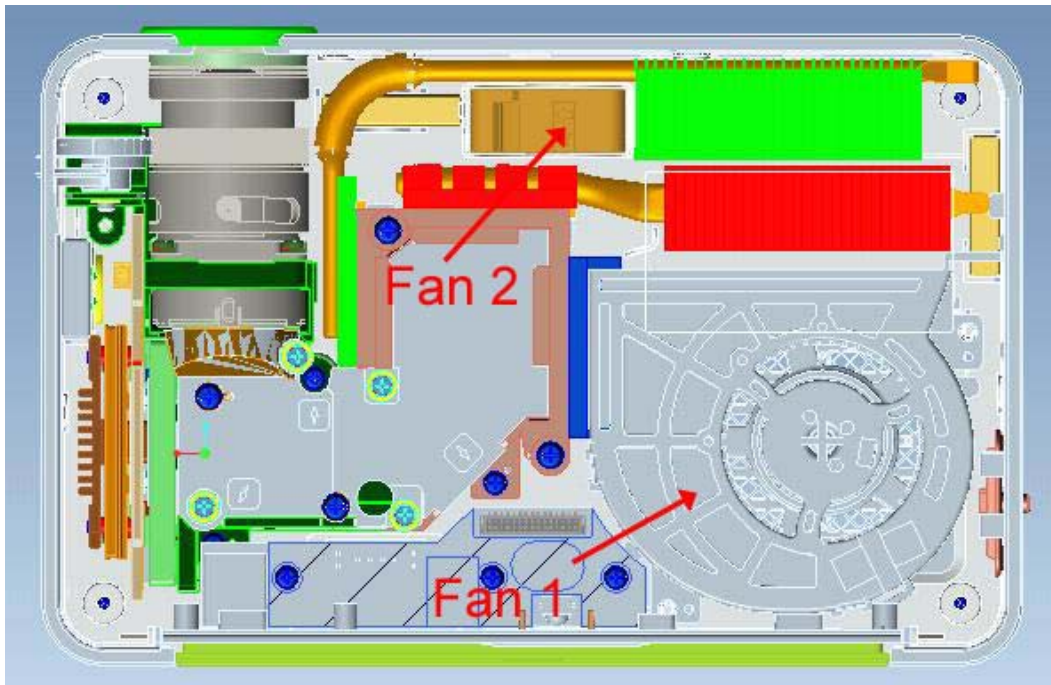
When operating the Qumi in an enclosed space, make sure that the surrounding air temperature within the enclosure does not exceed operating temperature while the Qumi is running, and the air intake and exhaust vents are unobstructed.

All enclosures should pass a certified thermal evaluation to make sure that the Qumi does not recycle exhaust air, as this may cause the device shutdown even if the enclosure temperature is within the acceptable operating temperature range.

Caution: Avoid using the Qumi in dusty environments.

13. Fan Control Checking Table

Fan 1	Blower Fan
Fan 2	Axial Fan




14. Spare part list (Qumi_DP274-A13VVxx)

Item	Type	P/N	Description	Q'ty	White	Black
1	Cover	3392166105	TOP CASE PC V-0 WHITE	1	V	
2		3392174705	TOP COVER PC V-0 BLACK	1		V
3		3398053404	CASE BOTTOM ASSY DP274-A13VVxA	1	V	
4		3398053704	CASE BOTTOM ASSY DP274-A13VVxB	1		V
5	Rubber	3245122202	FOOT SIRUB V-0 8.5*5.6*9 WHT	1	V	
6		3245120002	FOOT SIRUB V-0 8.5*5.6*9 BLK	1		V
7	Cover	3398053502	FRONT COVER ASSY	1	V	V
8		3398053601	BACK COVER ASSY DP274	1	V	V
9	IO LABEL	3205225200	NAME PLATE ACRYLIC 116.5*22.6 T0.3 DP274	1	V	V
10	Cover	3398055800	FRAME IO PC V-0 BLACK	1	V	V
11	FAN	3622200211	DC FAN ASSY ASB02505HHA-SM02 L45 28.5 S AXIAL FAN	1	V	V
12		3622610411	DC FAN ASSY BUB0605HC-SM00 L35 60 S BLOWER FAN	1	V	V
13	Board	5600601842	PWB ASSY MAIN BD QUMI M01	1	V	V
14		5600601841	PWB ASSY BATTERY DOCKING BD QUMI V01	1	V	V
15		5600601845	PWB ASSY TOUCH KEYPAD BD QUMI V01	1	V	V
16		5600601946	PWB ASSY HDMI+VGA BD QUMI M02	1	V	V
17		5600601843	PWB ASSY MULTI-MEDIA BD QUMI M01	1	V	V
18		5600601846	PWB ASSY S310 DMD BD QUMI V01	1	V	V
19	Adapter	0993101380	ADAPTER 100~240VAC 19VDC 3.42A 2.5 (White)	1	V	
20		0993101280	ADAPTER 100~240VAC 19VDC 3.42A 2.5 (Black)	1		V
21	Engine	5811117177-S	OPTICAL MODULE QUMI WXGA ASSY	1	V	V
22	Carton					
23		3517329701	GIFT BOX CRGD PAPER 264*197.5*62	1	V	
24		3517329801	GIFT BOX CRGD PAPER 264*197.5*62	1		V
25	Bag POF	3502079300	BAG POF 380*275 CL	1	V	V
26	Cord	3090290400	AC POWER CORD 2P 2* 0.75mm^2 L800 WHT (For China)	1	V	

27		3090290300	AC POWER CORD 2P 2* 0.75mm^2 L800 WHT (For EU)	1	V	
28		3090289900	AC POWER CORD 2P 2* 0.824mm^2 L800 WHT (For USA and ROW)	1	V	
29		3090290000	AC POWER CORD 2P 2* 0.75mm^2 L800 BLK (For China)	1		V
30	Cord	3090290200	AC POWER CORD 2P 2* 0.75mm^2 L800 BLK (For EU)	1		V
31		3090290100	AC POWER CORD 2P 2* 0.824mm^2 L800 BLK (For USA and ROW)	1		V
32		3081333400	CABLE SIGNAL IO 24PIN VGA 30C L500 BLK	1	V	V
33		3081333500	CABLE SIGNAL MINI HDMI HDMI 32C L500 WHT	1	V	
34		3081333700	CABLE SIGNAL MINI HDMI HDMI 32C L500 BLK	1		V
35		3081335500	CABLE SIGNAL MINI HDMI MINI HDMI 32C	1	V	
36	Cable	3081335300	CABLE SIGNAL MINI HDMI MINI HDMI 32C	1		V
37		3081335600	CABLE USB MINI 4P 2C L1000 WHT	1	V	V
38		3081335400	CABLE AUDIO 3.5 AUDIO 3.5 AUDIO 30C L500	1	V	V
39		3072443000	CONN ADP AV PHONE JACK/USB/APPLE DOCK	1	V	V
40	CD	3534174200	CD S/W PKG ASSY DP274 SERIES	1	V	V
41	Case	3523502701	CARRYING CASE PA 170*110*35	1	V	V
42	Remote	5041822200	REMOTE CONTROLLER 9KEYS QUMI VIVITEK	1	V	V
43		3261386100	LABEL BARCODE PET 73*25 (for inside carton label)	1	V	V
44		3262559100	LABEL LOGO PLE 45*25 (for inside carton of tear open label)	1	V	V
45		3200793300	LABEL BARCODE PAPER 100*100 (for outside carton label)	1	V	V
46		3221106200	TAPE OPP 72mm CLEAR	1	V	V
47		5012079400	CARD WARRANTY DP274 SERIES ZH (for china)	1	V	V
48		5012079200	CARD WARRANTY DP274 SERIES EN (for USA)	1	V	V

49		5012079800	CARD WARRANTY DP274 ASIA (for USA & ROW)	1	V	V
50		5012079300	CARD WARRANTY DP274 SERIES DE (for EU & ROW)	1	V	V
51		5012079100	CARD QUICK START DP274 SERIES	1	V	V

1	2	3	4
			
5	6	7	8
			
9	10	11	12
			
13	14	15	16
			
17	18	19	20
			

21	22	23	24
			
25	26	27	28
	TBD		
29	30	31	32
TBD			
33	34	35	36
			
37	38	39	40
			
41	42	43	44
			

			
45	46	47	48
			
49	50	51	
			